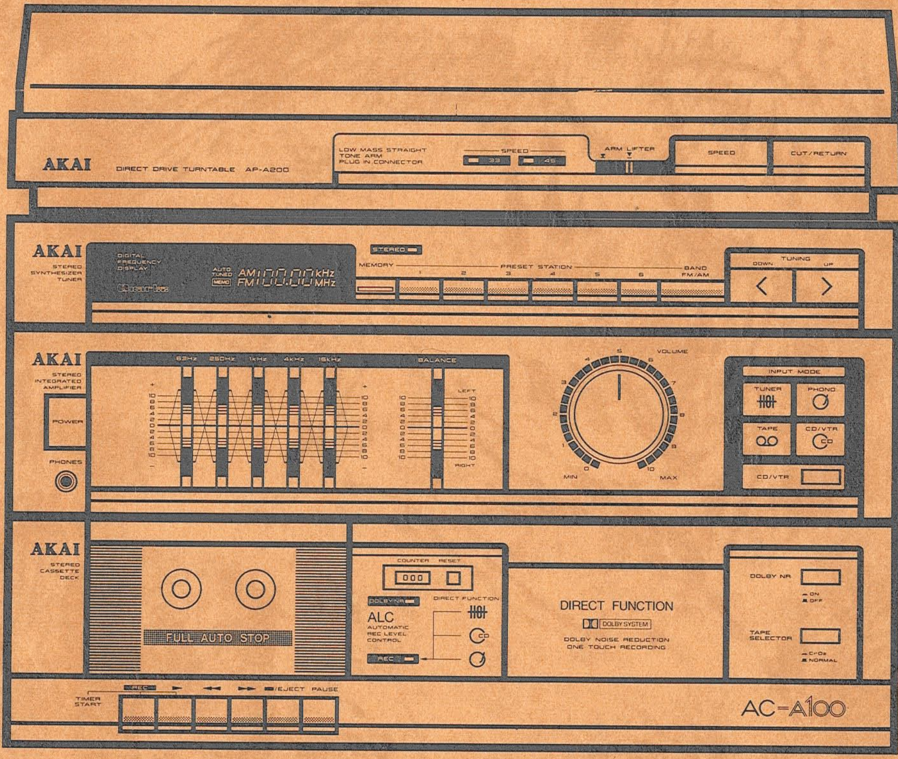
AKAI SERVICE MANUAL


AKAI
DIRECT DRIVE TURNTABLE AP-A200
LOW MASS STRAIGHT TONE ARM
PLUG IN CONNECTOR
SPEED
33
45
ARM LIFTER
SPEED
CUT/RETURN
AKAI
STEREO SYNTHESIZER TUNER
DIGITAL FREQUENCY DISPLAY
STEREO
MEMORY
PRESET STATION
BAND FM/AM
TUNING
DOWN
UP
AKAI
STEREO INTEGRATED AMPLIFIER
POWER
PHONES
63Hz
250Hz
1kHz
4kHz
16kHz
BALANCE
LEFT
RIGHT
VOLUME
MIN
MAX
INPUT MODE
TUNER
PHONO
TAPE
CD/VTR
AKAI
STEREO CASSETTE DECK
FULL AUTO STOP
COUNTER RESET
ALC
AUTOMATIC REC LEVEL CONTROL
DIRECT FUNCTION
DOLBY SYSTEM
DOLBY NOISE REDUCTION
ONE TOUCH RECORDING
DOLBY NR
TAPE SELECTOR
TIMER START
REC
EJECT
PAUSE
AC-A100

PRO-A100/A100D

COMPATIBLE TURNTABLE

MODEL AP-A100/C,A200/C

AMP-TUNER-DECK

MODEL AC-A100/L

AKAI
DIRECT DRIVE TURNTABLE AP-A200
LOW MASS STRAIGHT TONE ARM
PLUG IN CONNECTOR
SPEED
ARM LIFTER
CUT/RETURN
AKAI
STEREO SYNTHESIZER TUNER
DIGITAL FREQUENCY DISPLAY
STEREO
MEMORY
PRESET STATION
BAND FM/AM
TUNING
DOWN
UP
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STEREO INTEGRATED AMPLIFIER
POWER
PHONES
VOLUME
MIN
MAX
INPUT MODE
TUNER
PHONO
TAPE
AKAI
STEREO CASSETTE DECK
FULL AUTO STOP
COUNTER
RESET
DOLBY NR
ALC
AUTOMATIC REC LEVEL CONTROL
REC
DIRECT FUNCTION
DOLBY SYSTEM
DOLBY NOISE REDUCTION
ONE TOUCH RECORDING
DOLBY NR
ON
OFF
TAPE SELECTOR
CrO2
NORMAL
TIMER START
EJECT
PAUSE
AC-A100

PRO-A100/A100D

MODEL AP-A100/C, AP-A200/C, AC-A100/L

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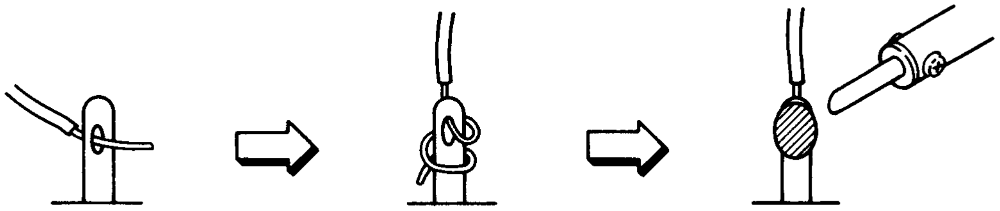
SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for $\boxed{C}$ or $\boxed{A}$, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

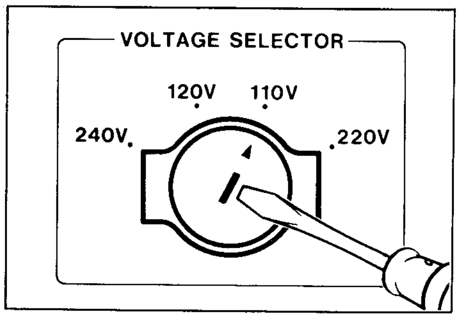
1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF .converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

VOLTAGE CONVERSION

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V, or 240V as required.
If your machine's voltage can be converted:
Before connecting the power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



INTRODUCING THE AKAI PRO-A100 SERIES COMPONENTS

The AC-A100/L components are microcomputer controlled for easy (Direct Function) operation and convenient recording. Combined with the compatible AP-A100/A200 turntable, these components comprise a complete high quality HI-Fi system.

1. PRO-A100 Series Line-up

	PRO-A100	PRO-A100D
Turntable	AP-A100/C	AP-A200/C
AMP-TUNER-DECK	AC-A100/A100L	

2. Features

1) AP-A100/C

- Semi automatic player system
  - * Set the record speed, then use the damped cue control arm to lift and lower the tone arm. The Akai AP-A100 will automatically locate the end of each record and return to the tone arm rest when the selection is finished. If you want to lift the tone arm from one section and start another, the tone arm Cue Control Damper eliminates the possibility of accidental scratches to your records.
- Low resonant cabinet which helps prevent distortion
- Sensitive straight tone arm
  T4P* type plug in cartridge (AP-A100C only)
- DIRECT FUNCTION control makes playback and recording operations simple, when combined with the Akai AC-A100/L.

2) AP-A200/C

- Low mass straight tone arm
- Low resonant cabinet which helps prevent distortion
- Semi automatic Direct Drive player system.
  - * Set the record speed, then use the damped cue control arm to lift and lower the tone arm. The Akai AP-A200 will automatically locate the end of each record and return to the tone arm rest when the selection is finished. If you want to lift the tone arm from one section and start another, the tone arm Cue Control Damper eliminates the possibility of accidental scratches to your records.

  T4P* type plug in cartridge (AP-A200C only)
- DIRECT FUNCTION control makes playback and recording operations simple, when combined with the Akai PRO-A200.

3) AC-A100/L

Quartz Stereo Synthesizer Tuner

- Microcomputer controlled Tuner for accurate tuning
- Up to 12 stations can be memorized (6 AM band, and 6 FM band)
- FL digital display panel

Stereo Integrated Amplifier

- Five band graphic equalizer for adjusting the sound to suit your taste, can be used during all playback and recording operations.
- DIRECT FUNCTION control automatically activates the tuner, tape deck and Phono.
- BALANCE control and large VOLUME control dial
- CD/VTR input mode selector button for use when you want to play back another audio component connected to the rear panel CD/VTR jacks

Stereo Cassette Deck

- Direct Function recording with the tuner, phono, or other connected audio component
- DOLBY NR (B) switch for use of the Dolby Noise Reduction System
- Full auto stop, the tape will automatically stop during all tape functions, when the end of the tape is reached.
- One touch recording button for easy recording
- Timer (optional) can be used for Timed Playback or Absentee Recording purposes.

—MEMO—

AKAI
SPEED
SEMI AUTOMATIC TURNTABLE AP-A100
CUT RETURN

SECTION 1

SERVICE MANUAL

MODEL AP-A100/C

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For basic adjustments, measurnig methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

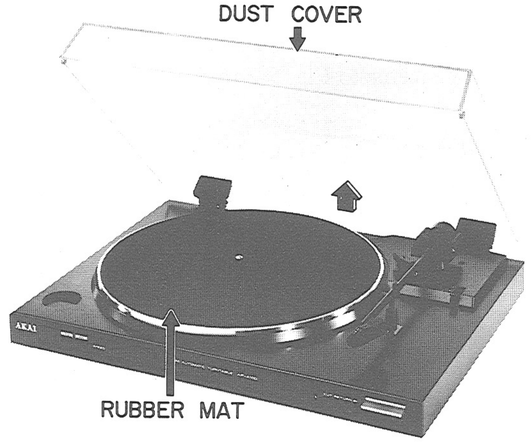
TURNTABLE (PLATTER)	Aluminum alloy diecast
DRIVE SYSTEM	Direct drive
MOTOR	FG servo DC motor
SPEED	33-1/3 & 45rpm
WOW & FLUTTER	0.045% (WRMS)
RUMBLE	70dB (DIN-B)
TONE ARM	Static balanced type
EFFECTIVE ARM LENGTH	220mm
STYLUS PRESSURE ADJUSTMENT RANGE	1.25g (fixed)
APPLICABLE CARTRIDGE WEIGHT	5.9g
ARM LIFTER	Oil damped
OVER HANG	17.5mm
CARTRIDGE (AP-A100/C only)	VM type (PC-35/T4P plug-in type)
OUTPUT VOLTAGE	2.5mV
CHANNEL SEPARATION	More than 20dB
OPTIMAL STYLUS PRESSURE	1.25g
DIMENSIONS	440(W) x 99(H) x 347(D)mm (17.3 x 3.9 x 13.7 inches)
WEIGHT	3.2kg (7.1 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

1



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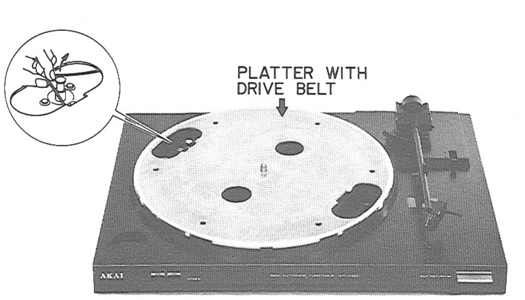

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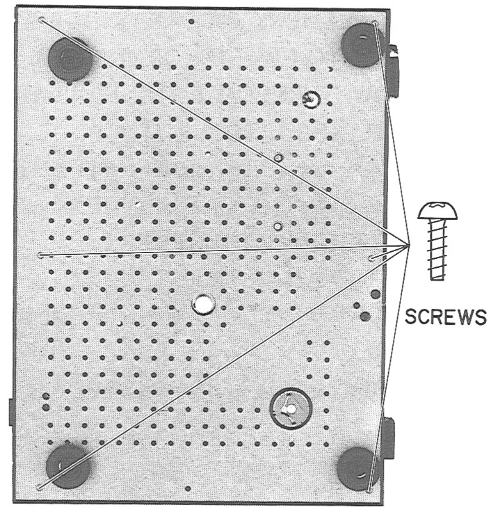

III. CONTROLS

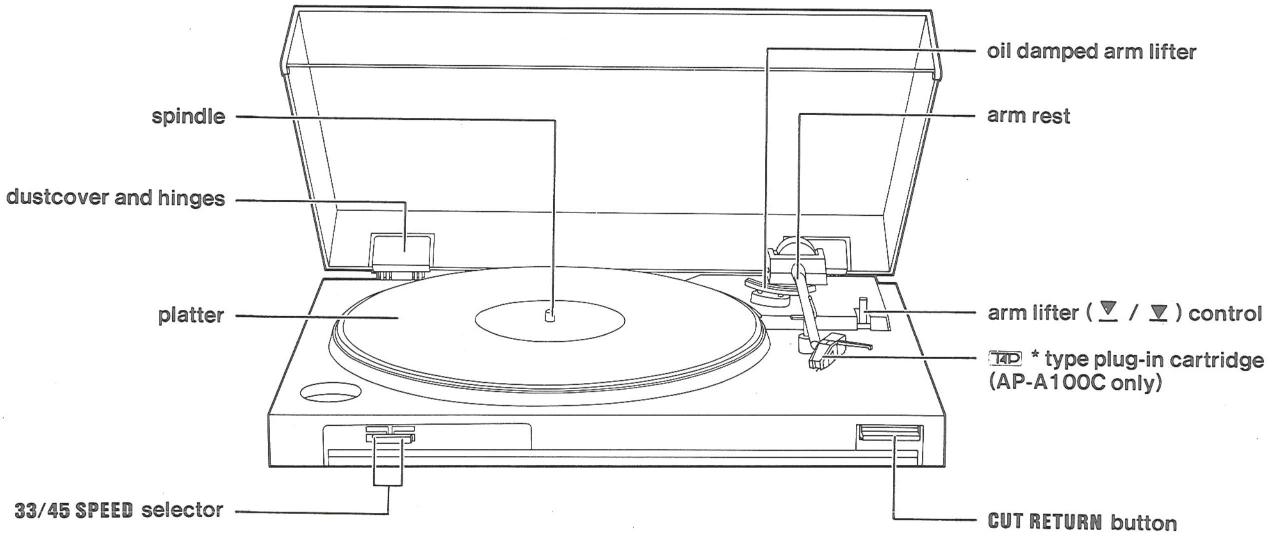
oil damped arm lifter
spindle
arm rest
dustcover and hinges
platter
arm lifter (▼ / ▼) control
T4P * type plug-in cartridge (AP-A100C only)
33/45 SPEED selector
CUT RETURN button

Fig. 3-1 Controls

IV. PRINCIPAL PARTS LOCATION

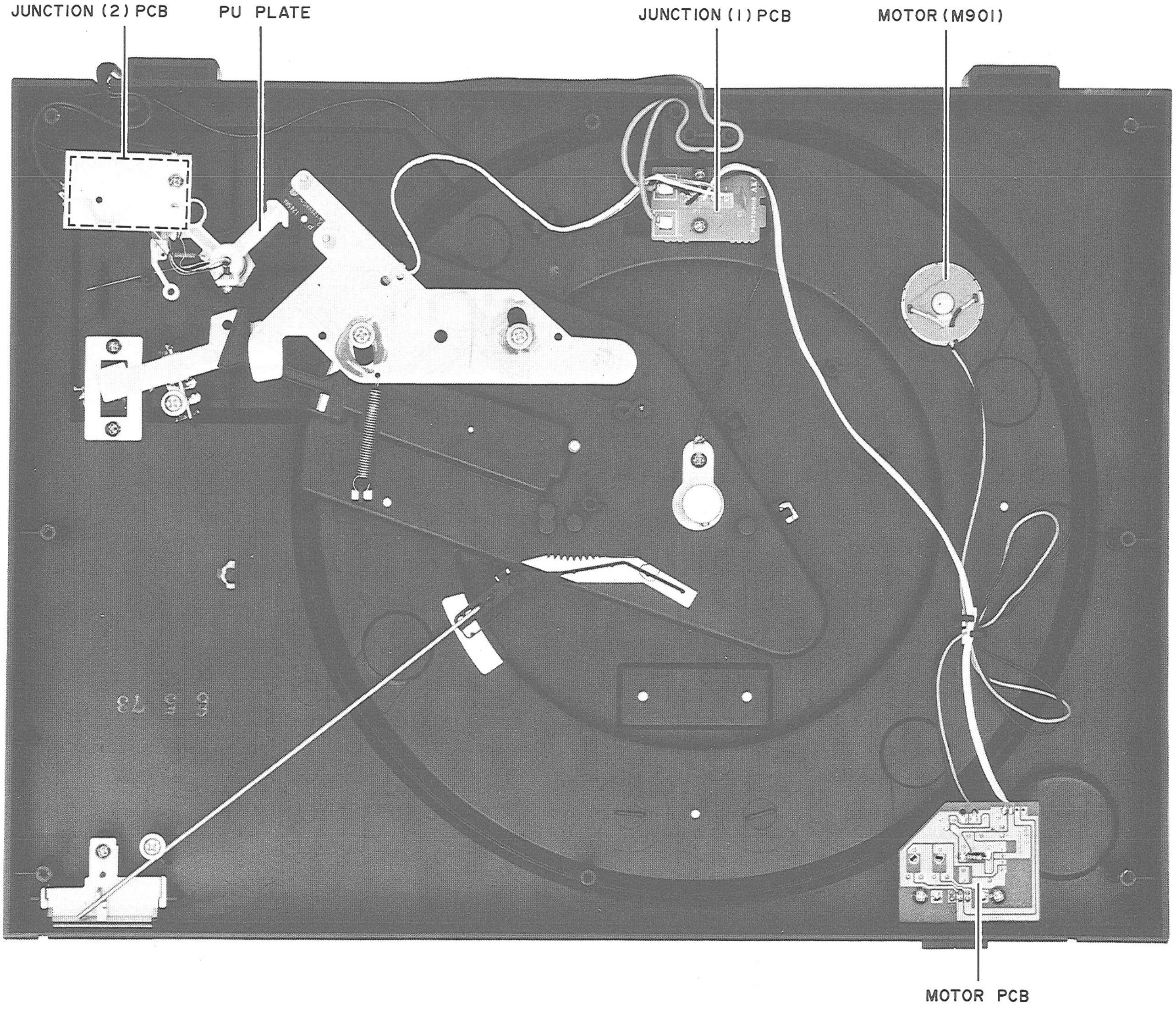
JUNCTION (2) PCB
PU PLATE
JUNCTION (1) PCB
MOTOR (M901)
MOTOR PCB

Fig. 4-1

V. REPLACEMENT OF CARTRIDGE AND TONE ARM ASSEMBLY

5-1. HOW TO CHANGE OR INSTALL THE CARTRIDGE (Refer to Fig. 5-1)

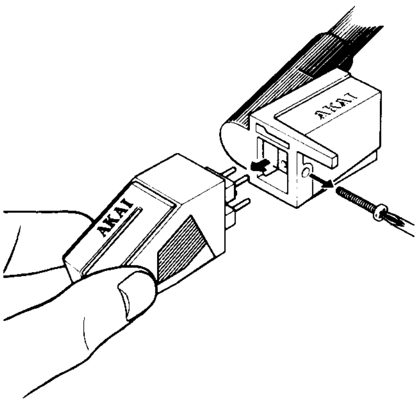

Fig. 5-1

With the tone arm on the tone arm rest and clamped, remove the screw on the side of the tone arm (directly behind the cartridge) by using a screwdriver. After removing the screw, grasp the cartridge firmly and pull it forward, away from the tone arm, until it is free.

Replace the new cartridge by reversing the above operation.

In order to enjoy the full capability of the Akai AP-A100 please note the following when changing the cartridge.

- * Repace the cartridge with one which has the same output voltage (2.5mV/1kHz, 5cm/sec peak).
- * T4P is the standard mark for plug-in connectors. Connectors with this mark are compatible with each other. The Akai AP-A100 is equipped with a high quality VM cartridge, but any cartridge with the T4P mark can be used.
- * Let's protect the records. Do not touch the grooves when handling the record. Dirty grooves will produce distortions. Store records standing in a well ventilated place, relatively free of dust.
- * Don't interrupt any movement. Do not touch the tone arm or the platter and do not turn off the power under the following conditions:
  - * During record playback
  - * When the tone arm is moving automatically.
  - * When the platter is turning.
- * Be sure. The ARM LIFTER is in the down (▼) position before attempting to clamp the tone arm to the tone arm rest.

5-2. HOW TO REPLACE THE TONE ARM ASSEMBLY (Refer to Fig. 5-2 to 5-3)

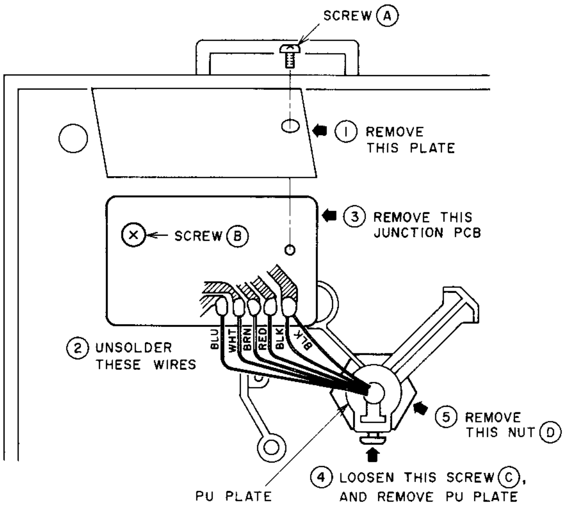

Fig. 5-2

1) Unscrew Ⓐ and remove the shield plate.
2) Remove the wires from Tone Arm Assembly.
3) Unscrew Ⓑ and remove the JUNCTION (2) PCB.
4) Loosen screw Ⓒ and remove the PU lever.
5) Unscrew the Nut Ⓓ and Remove the Tone Arm Assembly.
6) Install the New Tone Arm Assembly and do the reverse way.

After replaced the Tone Arm, PU plate position Adjustment is necessary as follow.

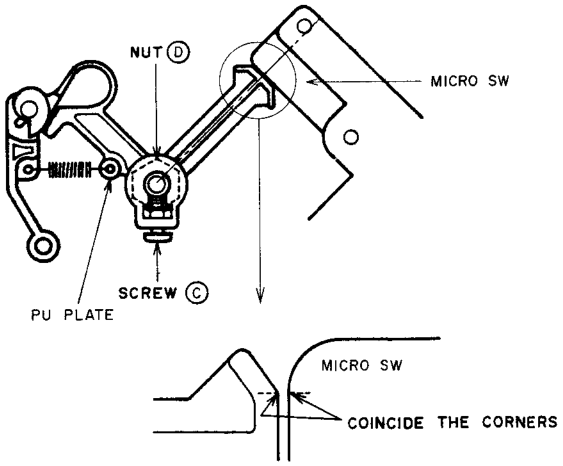

Fig. 5-3

1) Lock the Tone Arm on the TONE ARM REST.
2) Loosen the Screw Ⓒ, and Confirm that the PU PLATE is installed all the way into the Nut Ⓓ.
3) May loosen the screw Ⓒ a little and turn PU PLATE so that the corner of those PU PLATE and Micro SW are coincide as shown Fig. 5-3.
4) Tighten screw Ⓒ.
5) Next excute an AUTO RETURN operation and confirm that the AUTO RETURN position is proper. Do the fine adjustment in item 6-2 AUTO-RETURN ADJUSTMENT if necessary.
6) Paint lock the screw Ⓒ after the adjustment.

VI. MECHANICAL ADJUSTMENT

6-1. TONE ARM LIFTER HEIGHT ADJUSTMENT (Refer to Fig. 6-1, 6-2)

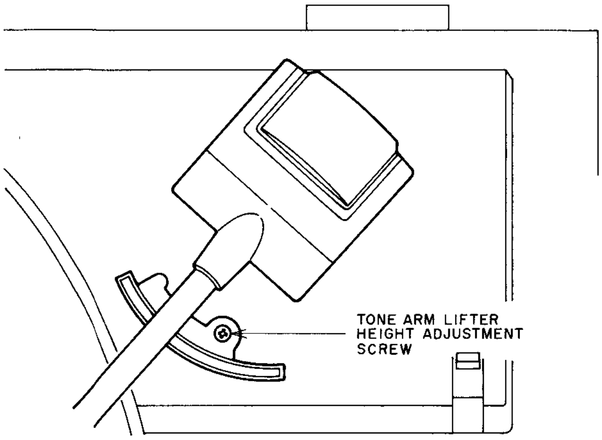
TONE ARM LIFTER HEIGHT ADJUSTMENT SCREW

Fig. 6-1

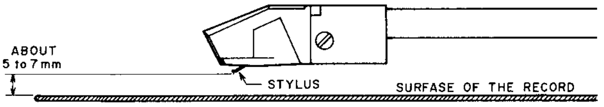
ABOUT 5 to 7mm
STYLUS
SURFASE OF THE RECORD

Fig. 6-2

With the Tone Arm in the up-position, the stylus should be about 6mm above the surface of the record.
If it is not, adjust the height by adjusting the TONE ARM HEIGHT ADJUSTMENT SCREW.

Clockwise: Down
Counterclockwise: Up

6-2. AUTO-RETURN ADJUSTMENT (Refer to Fig. 6-3)

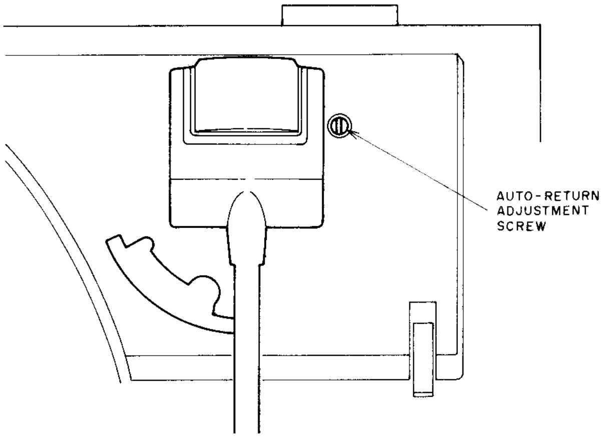
AUTO-RETURN ADJUSTMENT SCREW

Fig. 6-3

If the Tone Arm does not return automatically to the TONE ARM REST at the end of record.
Adjust auto-return Adjustment screw as follow.

* If the tone arm return before the end of the record
  Turn the Auto-Return Adjustment Screw Clockwise.

* If the tone arm does not return at the end of record
  Turn the Auto-Return Adjustment Screw Counterclockwise.

CAUTION:
Do not turn the Auto-Return Adjustment screw too much.

VII. ELECTRICAL ADJUSTMENT

7-1. SPEED ADJUSTMENT

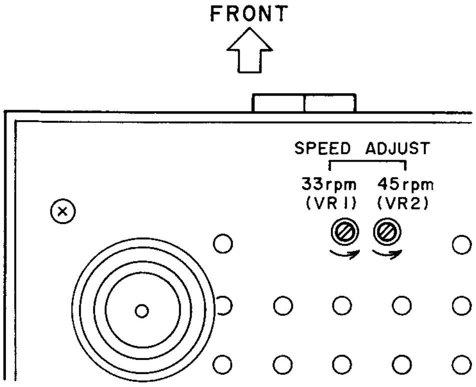
FRONT
SPEED ADJUST
33rpm (VR1)
45rpm (VR2)

Fig. 7-1 Speed Adjustment Points

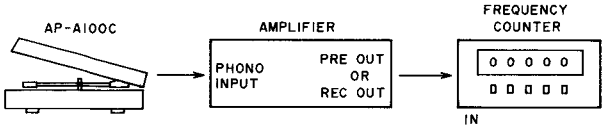
AP-A100C
AMPLIFIER
PHONO INPUT
PRE OUT OR REC OUT
FREQUENCY COUNTER
00000
IN

Fig. 7-2 Instruments Connection

1) Connect a Amplifier and Frequency counter as shown Fig. 6-2.
2) Set the Speed Selector to 33-1/3rpm.
3) Play back the Test Record (1000Hz, 33-1/3rpm), and Adjust VR1 so that the speed is 1000±10Hz.
4) Set the speed Selector to 45rpm.
5) Play back the Test Record (1000Hz, 45rpm), and adjust VR2 so that the speed is 1000±10Hz.

NOTE:

This Speed Adjustment should be adjust 33-1/3rpm position first then adjust 45rpm next.

VIII. PC BOARD TITLES AND IDENTIFICATION NUMBERS

PC BOARD TITLE	PC BOARD NUMBER	REMARKS
MOTOR PC BOARD	G-80	
JUNCTION (1) PC BOARD	P1047D501A	
JUNCTION (2) PC BOARD	P1047D501B	

SECTION 2

SERVICE MANUAL

MODEL AP-A200/C

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VII. ELECTRICAL ADJUSTMENT 16

  1. SPEED ADJUSTMENT 16

VIII. PC BOARD TITLES AND IDENTIFICATION NUMBERS 16

For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

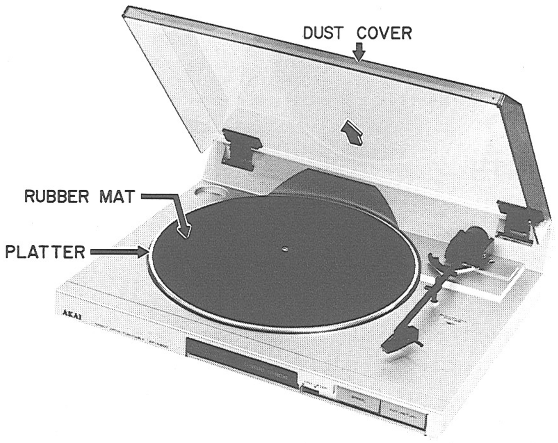
TURNTABLE (PLATTER)	Aluminum alloy dicast
DRIVE SYSTEM	Direct Drive Semi-automatic
MOTOR	FG Servo DC motor
SPEED	33-1/3 & 45 rpm
WOW & FLUTTER	0.045% (WRMS)
RUMBLE	70dB (DIN-B)
TONE ARM	Static balanced type
EFFECTIVE ARM LENGTH	220mm
STYLUS PRESSURE ADJUSTMENT	Oil damped
STYLUS RANGE ADJUSTMENT	1.25g (Final)
APPLICABLE CARTRIDGE WEIGHT	5.9g
CARTRIDGE (AP-A200C only)	VM type (PC-35/T4P Plug in Type)
OUTPUT VOLTAGE	2.5mV
CHANNEL SEPARATION	More than 20dB
OPTIMAL STYLUS PRESSURE	1.25g
DIMENSIONS	440(W) x 346.5(D) x 94(H) mm (17.3 x 13.6 x 3.7 inches)
WEIGHT	3.2kg (7.0 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

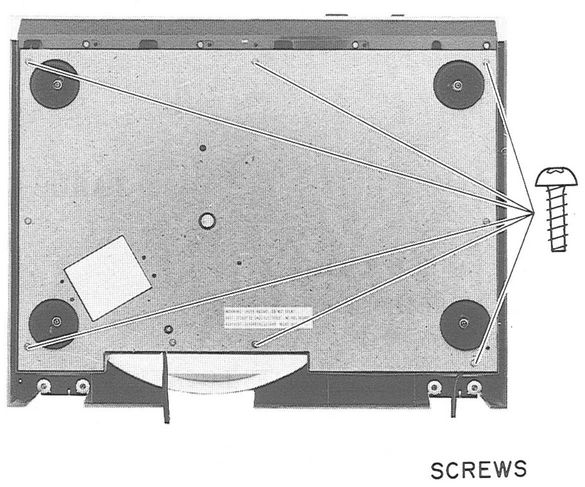
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

1



2



III. CONTROLS

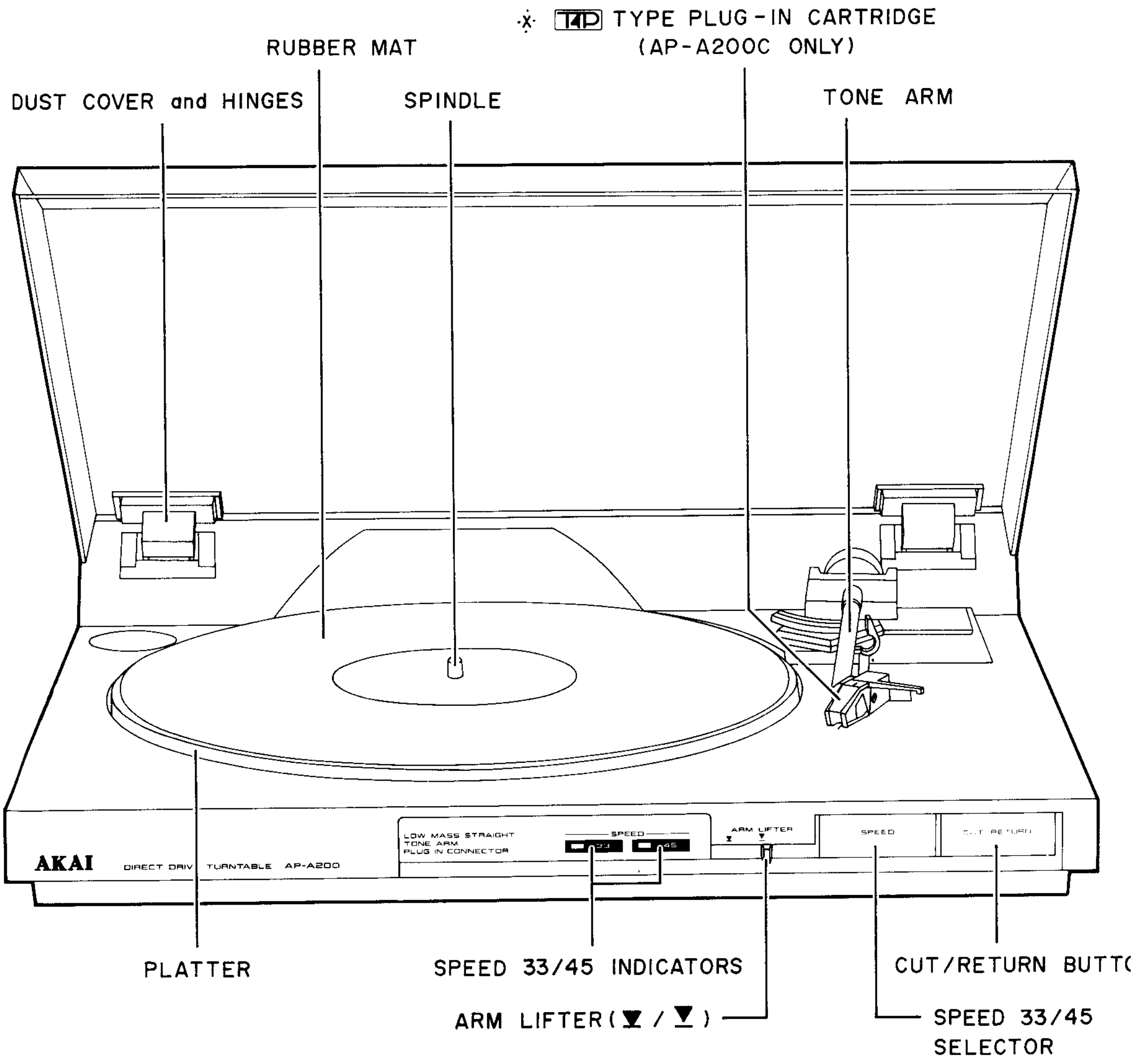

※ TAP TYPE PLUG-IN CARTRIDGE (AP-A200C ONLY)
RUBBER MAT
DUST COVER and HINGES
SPINDLE
TONE ARM
AKAI
DIRECT DRIV TURNTABLE AP-A200
LOW MASS STRAIGHT TONE ARM PLUG IN CONNECTOR
SPEED
33
45
ARM LIFTER
SPEED
CUT RETURN
PLATTER
SPEED 33/45 INDICATORS
ARM LIFTER(▼ / ▼)
CUT/RETURN BUTT
SPEED 33/45 SELECTOR

Fig. 3-1 Controls

IV. PRINCIPAL PARTS LOCATION

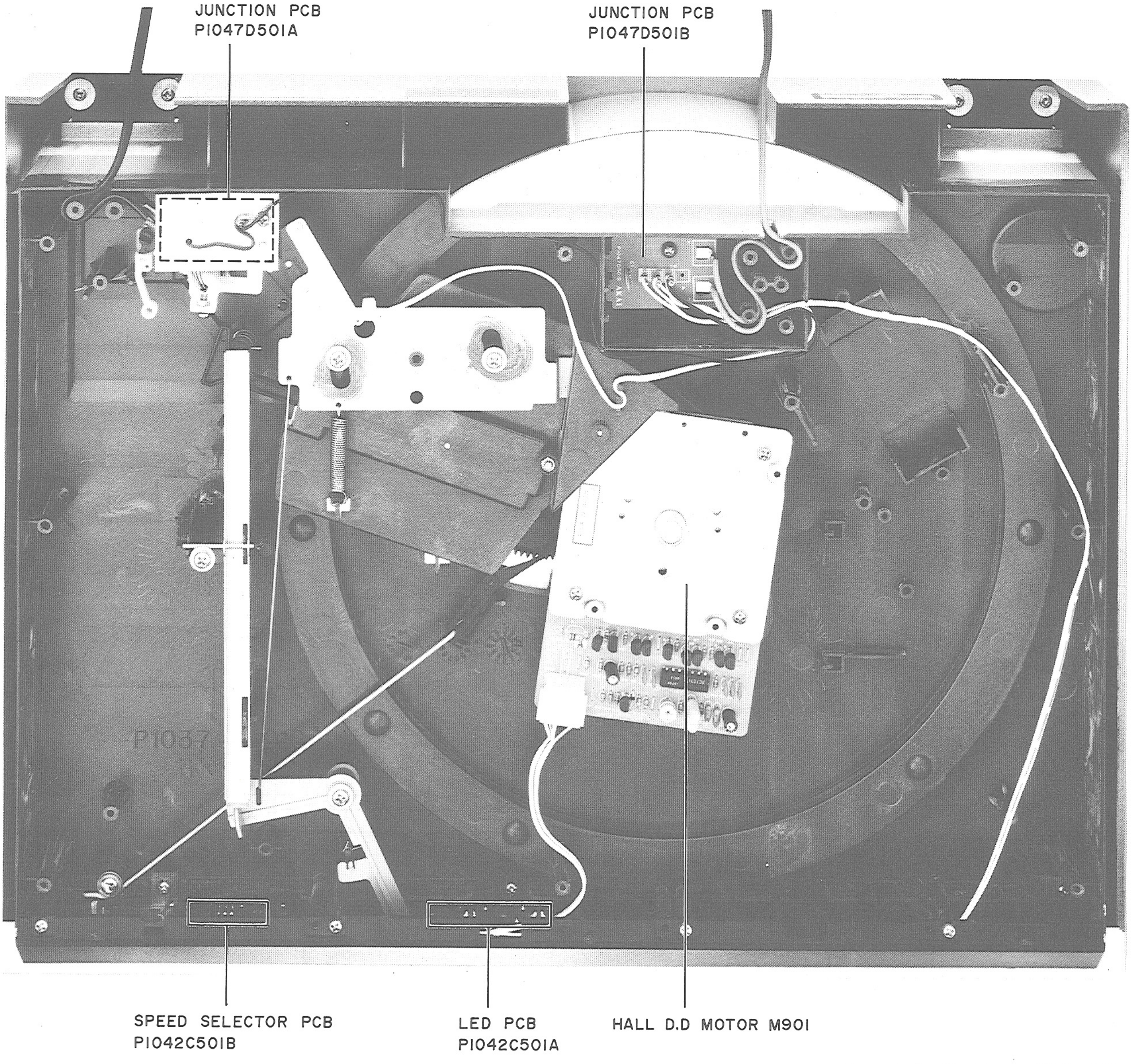

JUNCTION PCB
P1047D501A
JUNCTION PCB
P1047D501B
SPEED SELECTOR PCB
P1042C501B
LED PCB
P1042C501A
HALL D.D MOTOR M901

Fig. 4-1 Bottom Side View

V. HOW TO CHANGE OR INSTALL THE CARTRIDGE

With the tone arm on the tone arm rest and clamped, remove the screw on the side of the tone arm-directly behind the cartridge-by using a screwdriver.
After removing the screw, grasp the cartridge firmly and pull it forward, away from the tone arm, until it is free. Replace the new cartridge by reversing the above operation.

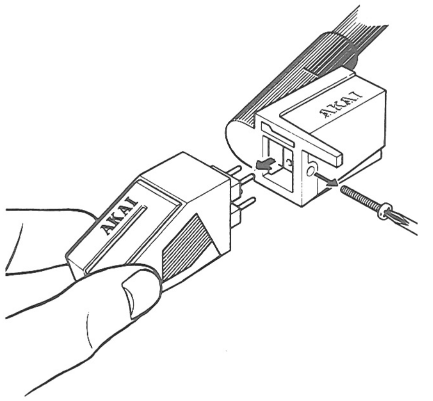


Fig. 5-1

VI. MECHANICAL ADJUSTMENT

6-1. TONE ARM HEIGHT ADJUSTMENT

* WHEN AUTO-CUT (Auto-Return) MODE (Refer to Figs. 6-1 and 6-2).

Set the play mode, and push the Cut Button. While returning the Tone Arm, comfirm the height of the Tone Arm, so that the height are 0.5 to 1.0 mm from flat face of Tone Arm Rest.

If the height is without 0.5 to 1.0 mm, adjust Tone Arm Lifter Height Adjustment screw.

Counterclockwise: Up
Clockwise: Down

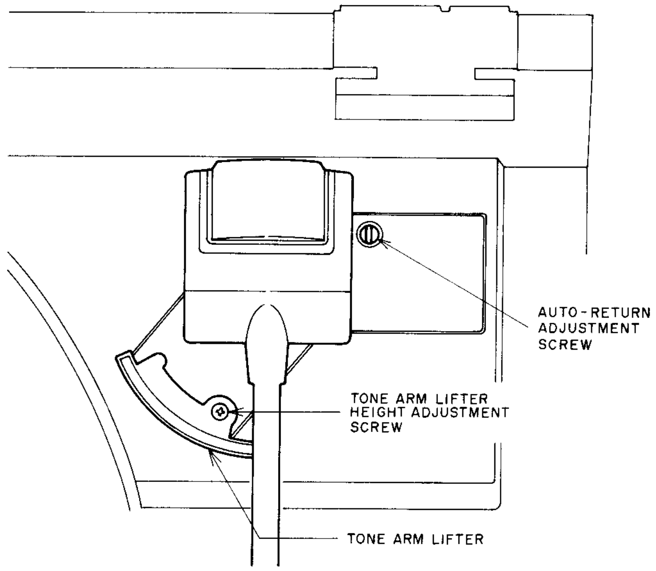

AUTO-RETURN ADJUSTMENT SCREW
TONE ARM LIFTER HEIGHT ADJUSTMENT SCREW
TONE ARM LIFTER

Fig. 6-1

6-2. AUTO-RETURN ADJUSTMENT (Refer to Fig. 6-1)

If the Tone Arm does not return automatically to the Tone Arm Rest at the end of the playback, or does so during playback:

1) Leave the Power Cord connected.
2) Adjust the Auto-Return Adjustment Screw.
   Turn clockwise:
   If the Tone Arm returns before the end of record.
   Turn counterclockwise:
   If the Tone Arm does not return at the end of record.

* Do not turn the screw counterclockwise too much.

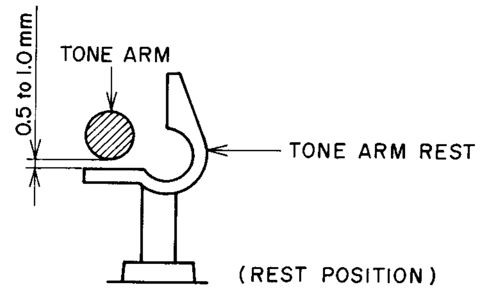

0.5 to 1.0mm
TONE ARM
TONE ARM REST
(REST POSITION)

Fig. 6-2

6-3. RETURN ARM POSITION ADJUSTMENT (Refer to Figs. 6-3 & 6-4)

After, replaced the Tone Arm, PU LEVER position Adjustment is necessary as follow.

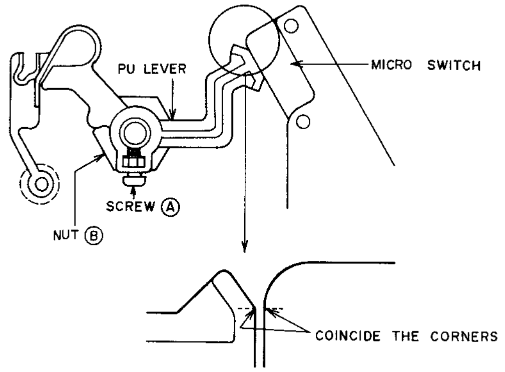

PU LEVER
MICRO SWITCH
SCREW Ⓐ
NUT Ⓑ
COINCIDE THE CORNERS

Fig. 6-3

1) Lock the Tone Arm on the ARM REST.
2) Loosen the Screw A, and confirm that the PU LEVER is installed all the way in the Nut B .
3) Turn the PU LEVER so that the corner of those PU LEVER and Micro switch are coincide as shown in Fig. 6-3.
4) Tighten the Screw A .
5) Move the Tone Arm to the spindle side, and confirm that micro switch is switched "ON" at about center between Tone Arm Rest position and platter as shown in Fig. 6-4.

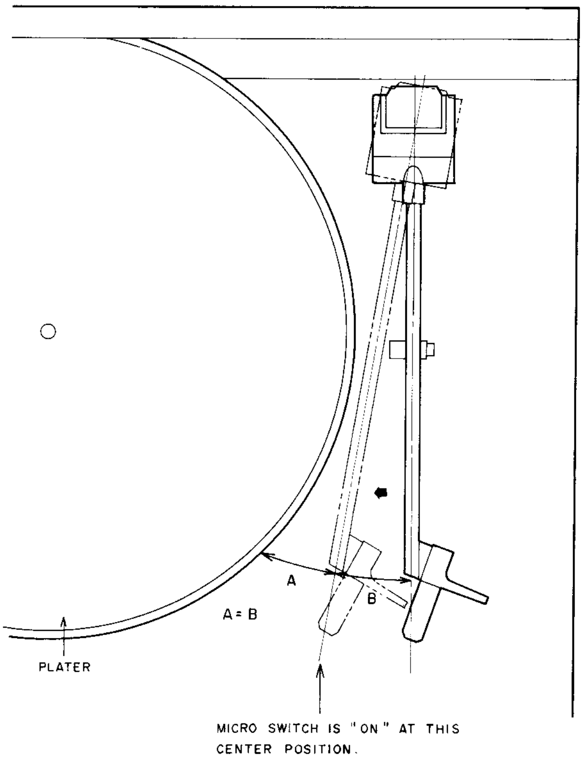

A
B
A = B
PLATER
MICRO SWITCH IS "ON" AT THIS CENTER POSITION.

Fig. 6-4

VII. ELECTRICAL ADJUSTMENT

7-1. SPEED ADJUSTMENT

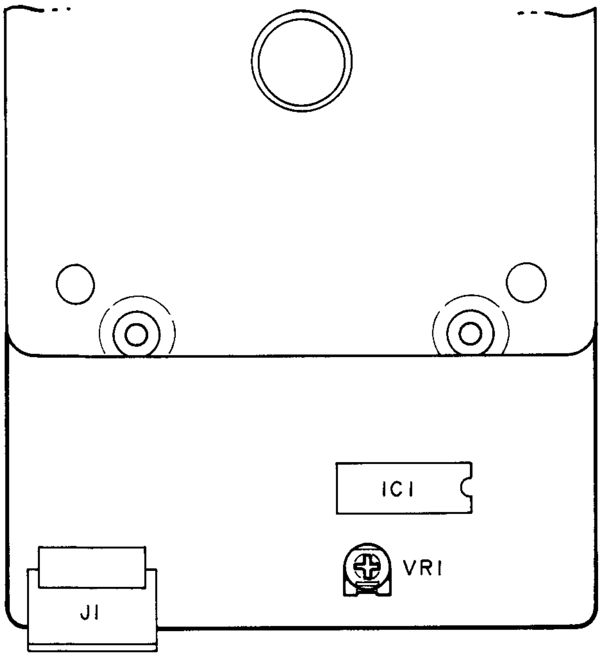


Fig. 7-1

1) Set the Speed Selector to 33-1/3rpm.
2) Playback the Test Record (33-1/3rpm, 1000Hz).
3) Adjust VR1 (10kohms) so that the speed is 1000 ±10Hz.
4) Set the Speed Selector to 45rpm.
5) Playback the Test Record (45rpm, 1000Hz).
6) Confirm that the Speed is 1000±10Hz.

VIII. PC BOARD TITLES AND IDENTIFICATION NUMBERS

PC BOARD TITLE	PC BOARD NUMBER	REMARKS
LED PC BOARD	P1042C501A	
SPEED SELECTOR PC BOARD	P1042C501B	
JUNCTION (A) PC BOARD	P1047D501A	
JUNCTION (B) PC BOARD	P1047D501B	

AKAI
AKAI
AKAI
FULL AUTO STOP
DIRECT FUNCTION
AC-A100L

SECTION 3

SERVICE MANUAL

MODEL AC-A100/L

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

POWER AMPLIFIER SECTION

	8ohms
RATED POWER OUTPUT 40Hz to 20kHz	35W/0.3%
POWER OUTPUT (BY FTC) 40Hz to 20kHz	35W/0.3%
DIN 1kHz	40W/0.7%
MUSIC POWER (BOTH CHANNELS)	180W
POWER BANDWIDTH (IHF –3dB, 8ohms)	10Hz to 40kHz (0.5%)
S/N (IHF-A) PHONO	70dB
CD/VTR	90dB
RESIDUAL NOISE (8ohms)	0.5mV
CHANNEL SEPARATION (IHF, 1kHz)	50dB
DAMPING FACTOR (1kHz, 8ohms)	30
REQUIRED SPEAKER IMPEDANCE	8 to 16ohms

PRE AMPLIFIER SECTION

INPUT SENSITIVITY/IMPEDANCE PHONO	2.5mV/47kohms
CD/VTR	250mV/47kohms
FREQUENCY RESPONSE	
PHONO (RIAA DEVIATION)	±0.5dB
TUNER, AUX, TAPE	5Hz to 100kHz (–3 dB)
GRAPHIC EQUALIZER	
TYPE	5 bands
CENTER FREQUENCY	63Hz/250Hz/1kHz/4kHz/16kHz
CONTROL RANGE	±10dB

TUNER SECTION

FM TUNER SECTION

TUNING FREQUENCY RANGE	87.5MHz to 108.0MHz
USABLE SENSITIVITY (300ohms)	12.7dBf
QUIETING SENSITIVITY (S/N=50dB)	19.2dBf (Mono)/40.2dBf (Stereo)
CAPTURE RATIO	2.0dB
SELECTIVITY (400kHz)	60dB
IMAGE REJECTION	50dB
IF REJECTION	80dB
SPURIOUS REJECTION	80dB
AM SUPPRESSION	50dB
SUB CARRIER SUPPRESSION	55dB
S/N (IHF)	70dB (Mono)/60dB (Stereo)
T.H.D.	0.2% (Mono) 0.4% (Stereo)
STEREO SEPARATION (1kHz)	40dB
FREQUENCY RESPONSE	30Hz to 15kHz ±1.0dB

AM TUNER SECTION (MW & LW FOR AC-A100L)

	AM tuner section (MW FOR AC-A100L)	LW tuner section (FOR AC-A100L)
TUNING FREQUENCY RANGE		
USA & CANADA	530kHz to 1,610kHz	–
OTHER COUNTRIES	531kHz to 1,602kHz	146kHz to 353kHz
USABLE SENSITIVITY (LOOP ANTENNA)	300uV/m	800uV/m
SELECTIVITY	30dB	40dB
IMAGE REJECTION	45dB	45dB
IF REJECTION	35dB	35dB
S/N	40dB	35dB
T.H.D.	1.0%	2.0%

OUTPUT SECTION

OUTPUT LEVEL FM	700mV (100% Mod.)
AM (MW FOR AC-A100L)	250mV (30% Mod.)
DIMENSIONS	440(W) x 66(H) x 210(D)mm (17.3 x 2.6 x 8.3 inches)
WEIGHT	1.6kg (3.5 lbs)

DECK SECTION

TRACK SYSTEM	4 track 2 channel stereo
TAPE	Phillips type cassette
HEADS	HD head for recording and playback x1 Erase head x1
MOTOR	Electronically speed controlled DC motor x1
WOW & FLUTTER	0.05% WRMS (JIS), 0.12% (DIN)
FREQUENCY RESPONSE	
NORMAL	30Hz to 15,000Hz ±3dB
CrO_2	30Hz to 16,000Hz ±3dB
S/N	56dB
DOLBY NR SWITCH ON:	Improves up to 5dB at 1kHz, 10dB above 5kHz
HARMONIC DISTORTION	Less than 0.7%
POWER REQUIREMENTS	120V, 60Hz for USA & CANADA 220V, 50Hz for Europe except UK 240V, 50Hz for UK & Australia 110V/120V/220V/240V, 50Hz/60Hz convertible for other countries.
DIMENSIONS	440(W) x 265(H) x 223(D) mm (17.3 x 10.4 x 8.8 inches)
WEIGHT	6.6kg (14.6 lbs)

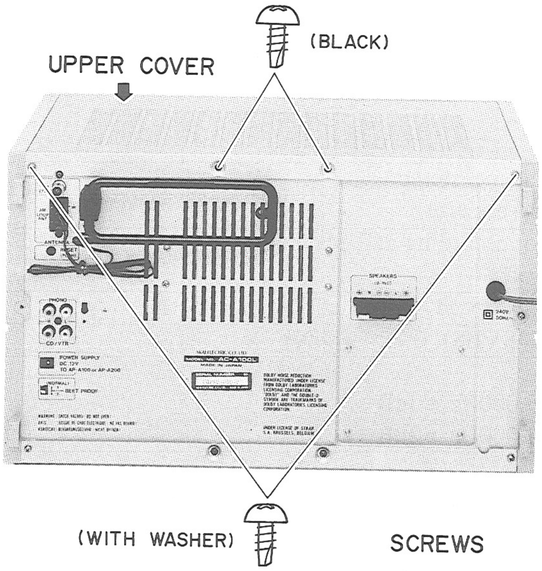
* For improvement purposes, specifications and design are subject to change without notice.

* Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

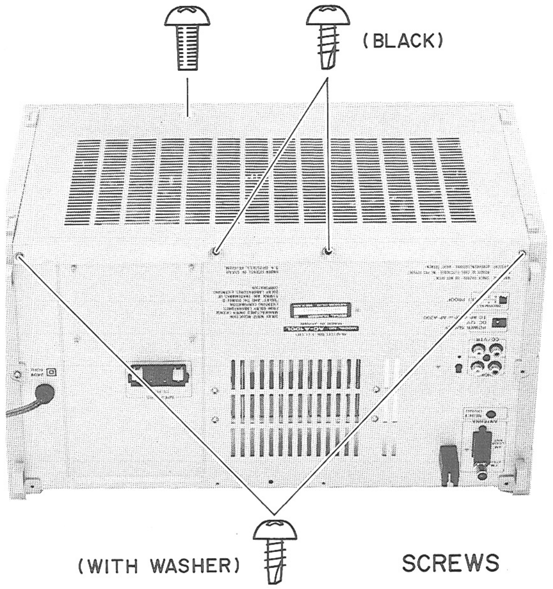
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

1

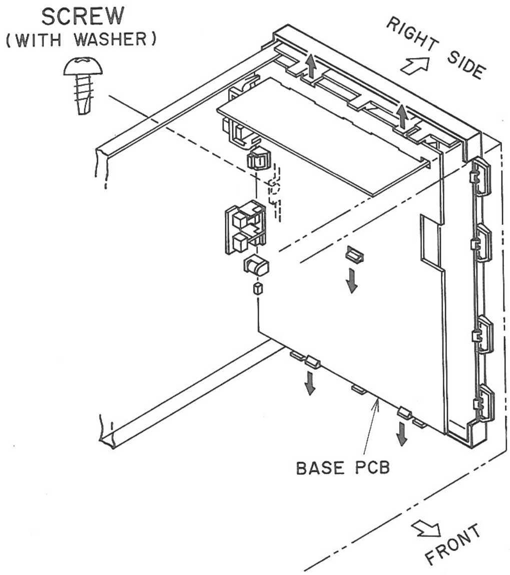

UPPER COVER
(BLACK)
(WITH WASHER)
SCREWS

2

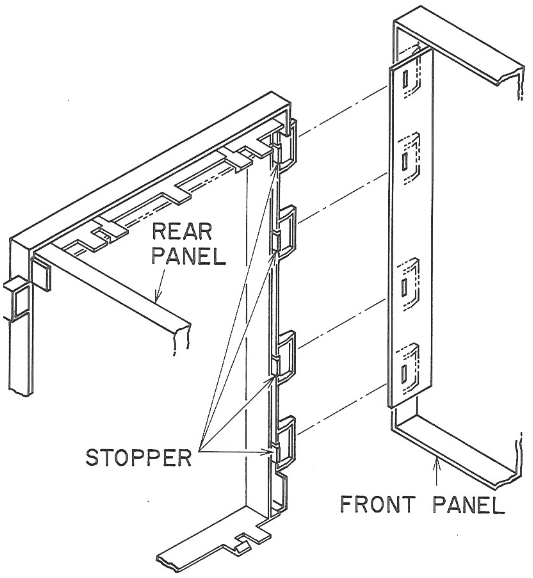

(BLACK)
(WITH WASHER)
SCREWS

How to disassemble BASE PCB.

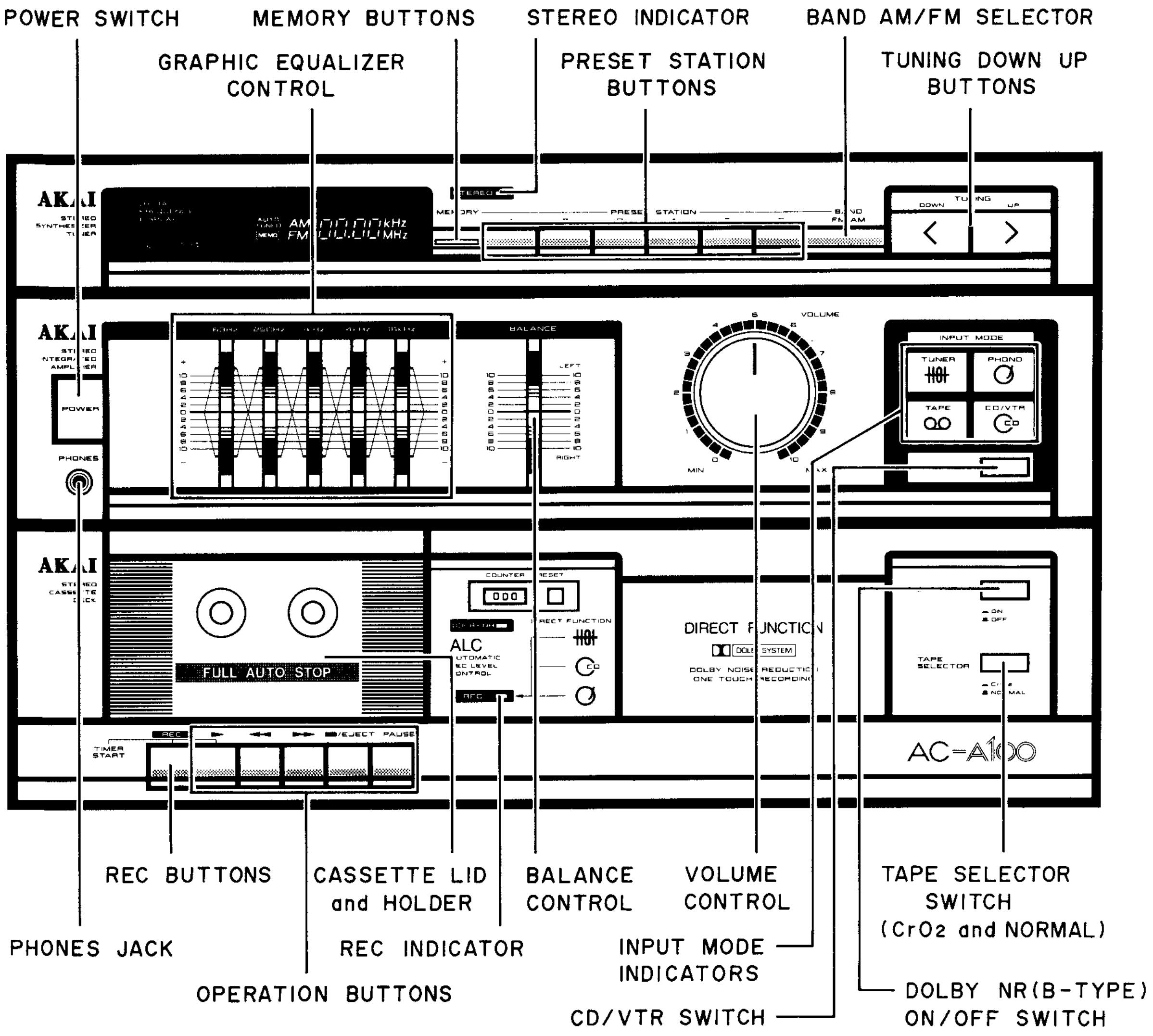
3


SCREW
(WITH WASHER)
RIGHT SIDE
BASE PCB
FRONT

4


REAR
PANEL
STOPPER
FRONT PANEL

III. CONTROLS


POWER SWITCH
MEMORY BUTTONS
STEREO INDICATOR
BAND AM/FM SELECTOR
GRAPHIC EQUALIZER CONTROL
PRESET STATION BUTTONS
TUNING DOWN UP BUTTONS
AKAI
AM kHz
FM MHz
STEREO
PRESET STATION
DOWN
UP
BALANCE
LEFT
RIGHT
VOLUME
MIN
MAX
INPUT MODE
TUNER
PHONO
TAPE
CD/VTR
POWER
PHONES
COUNTER
ALC
FULL AUTO STOP
REC
DIRECT FUNCTION
DOLBY SYSTEM
TAPE SELECTOR
TIMER START
PAUSE
AC-A100
REC BUTTONS
CASSETTE LID and HOLDER
BALANCE CONTROL
VOLUME CONTROL
TAPE SELECTOR SWITCH (CrO2 and NORMAL)
PHONES JACK
REC INDICATOR
INPUT MODE INDICATORS
OPERATION BUTTONS
CD/VTR SWITCH
DOLBY NR(B-TYPE) ON/OFF SWITCH

IV. PRINCIPAL PARTS LOCATIONS

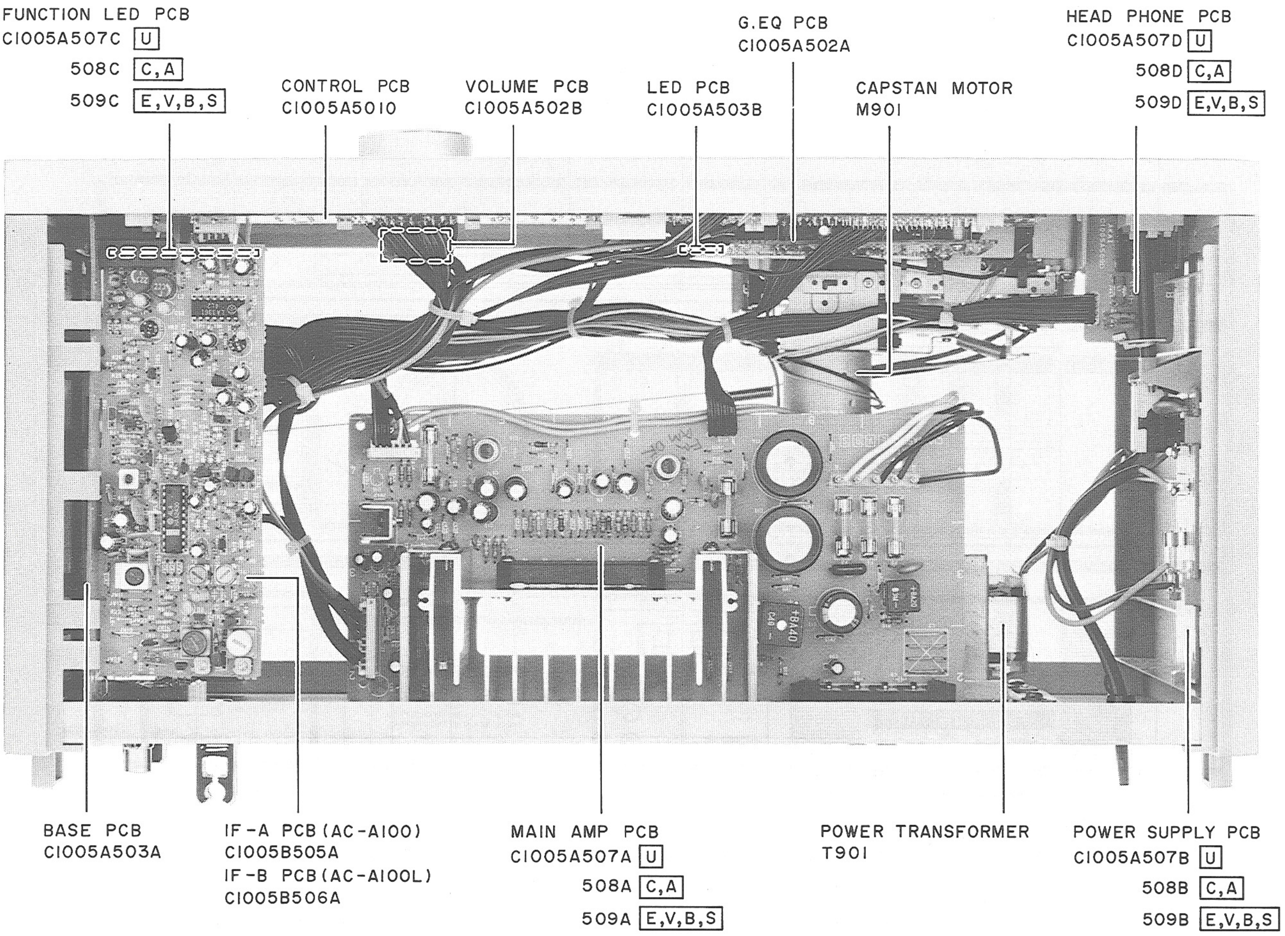

FUNCTION LED PCB
C1005A507C U
508C C,A
509C E,V,B,S
CONTROL PCB
C1005A5010
VOLUME PCB
C1005A502B
LED PCB
C1005A503B
G.EQ PCB
C1005A502A
CAPSTAN MOTOR
M901
HEAD PHONE PCB
C1005A507D U
508D C,A
509D E,V,B,S
BASE PCB
C1005A503A
IF-A PCB (AC-A100)
C1005B505A
IF-B PCB (AC-A100L)
C1005B506A
MAIN AMP PCB
C1005A507A U
508A C,A
509A E,V,B,S
POWER TRANSFORMER
T901
POWER SUPPLY PCB
C1005A507B U
508B C,A
509B E,V,B,S

Fig. 4-1

V. MECHANICAL ADJUSTMENT

5-1. PINCH ROLLER PRESSURE MEASUREMENT

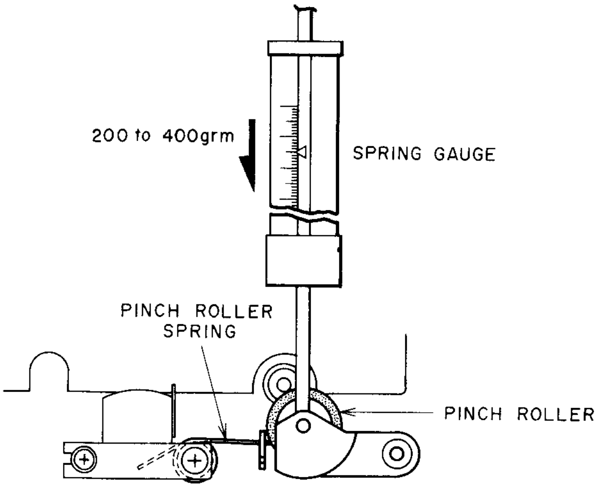

200 to 400grm
SPRING GAUGE
PINCH ROLLER SPRING
PINCH ROLLER

Fig. 5-1

Put in PLAY mode. Push pinch roller arm down with the spring gauge, push the pinch Roller 1 to 2 mm from the Capstan and release slowly.
Read the spring gauge at the moment the pinch roller touches the capstan and begins to totate. Specified contact pressure measurement of 200 to 400 grm. If there is no measurement obtained, Adjust or Replace the pinch Roller spring.

5-2. WINDING TORQUE MEASUREMENT IN EACH MODE

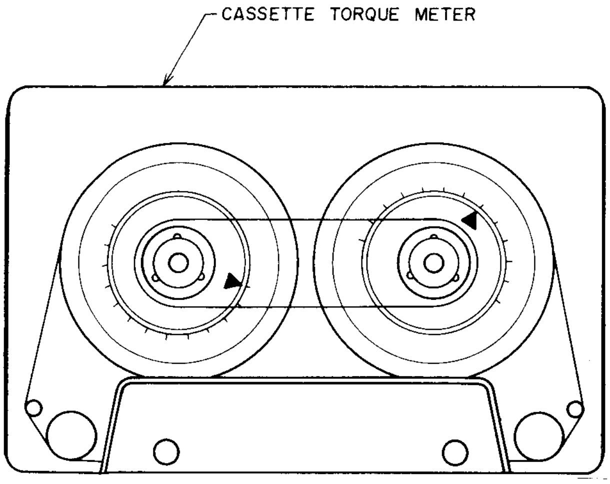

CASSETTE TORQUE METER

Fig. 5-2

Insert cassette torque meter (AJ-751179) and measure in each mode.
PLAY mode
  Tack up Torque: 35 to 75 grm-cm
  Back tension torque: 1 to 6 grm-cm
FAST FORWARD, REWIND mode
  Tack up Torque: 80 to 140 grm-cm

5-3. TAPE SPEED ADJUSTMENT

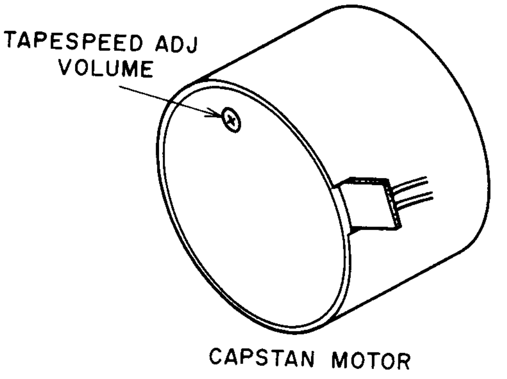

TAPESPEED ADJ VOLUME
CAPSTAN MOTOR

Fig. 5-3

5-4. REC/PB HEAD AZIMUTH ADJUSTMENT

Connect a frequency Counter to Line output terminals. Play Back a 3,150Hz Tape Speed Test Tape (AT-751263) and adjust a Tape Speed Adjustment Volume (see Fig. 5-3) to obtain a tape speed of 3,150 ±30Hz.

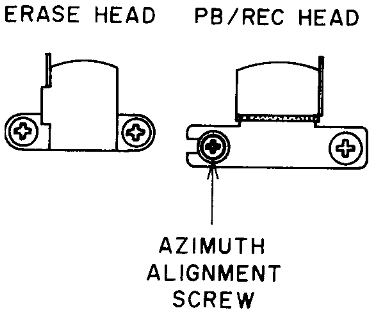
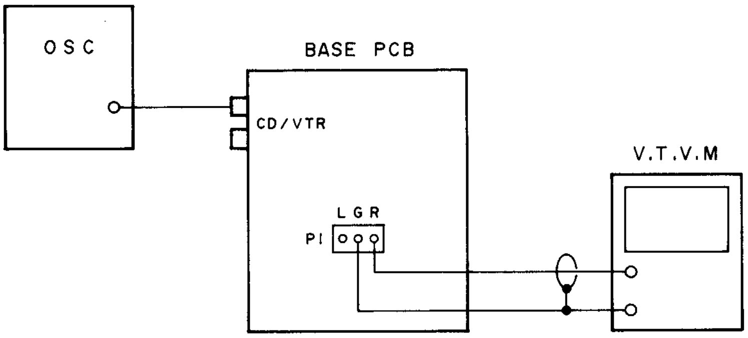

ERASE HEAD
PB/REC HEAD
AZIMUTH ALIGNMENT SCREW

Fig. 5-4

Play back a 10kHz Azimuth Alignment tape (AT-750778) and adjust the Azimuth Alignment Screw, untill the output levels of both channels are maximum. After Adjustment, Paintlock the azimuth Alignment Screw.

VI. ELECTRICAL ADJUSTMENT

6-1. INSTRUMENT CONNECTIONS FOR CASSETTE DECK


OSC
BASE PCB
CD/VTR
V.T.V.M
L G R
P1

6-2. CASSETTE DECK ADJUSTMENT

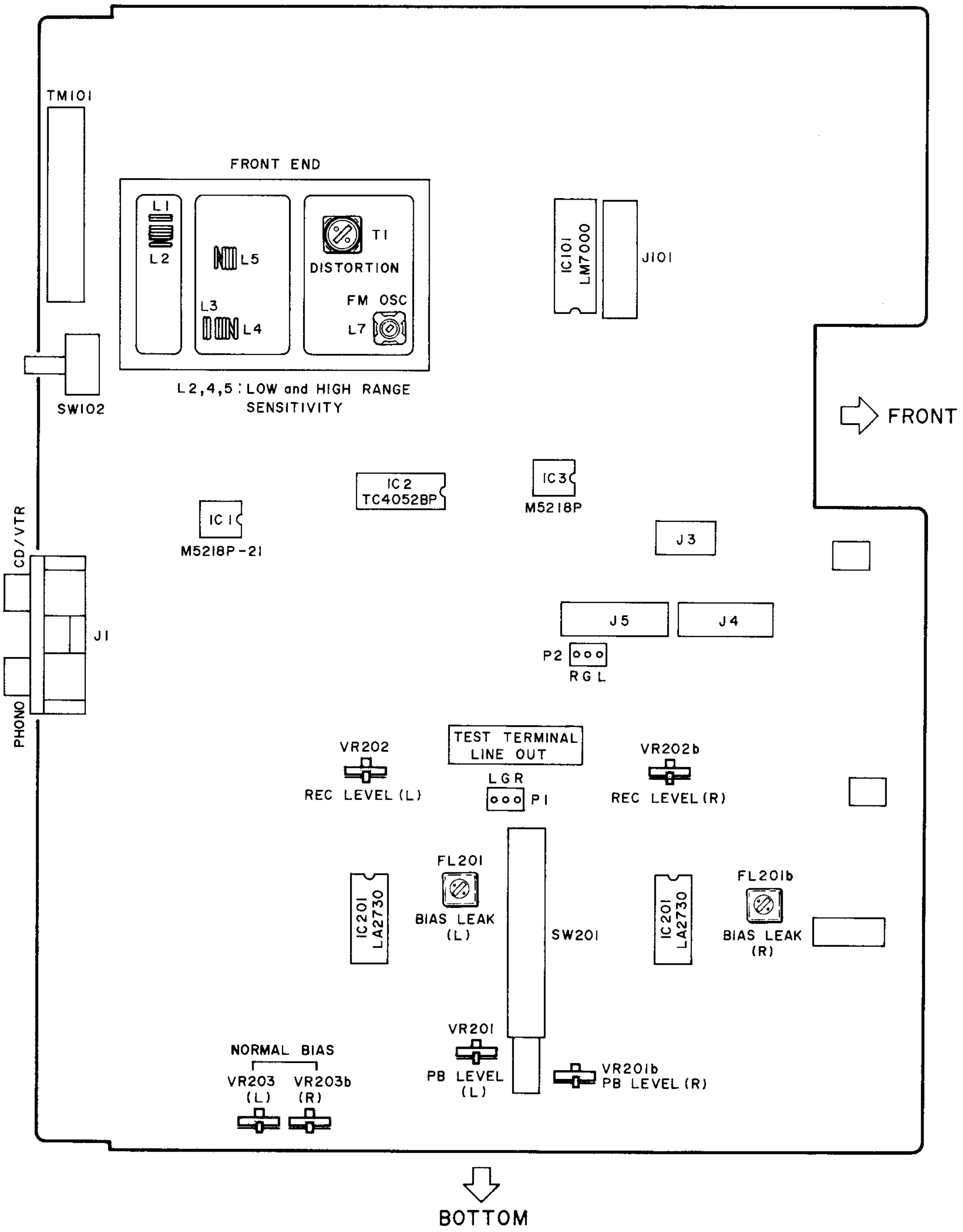

TM101
FRONT END
L1
L2
L5
L3
L4
T1
DISTORTION
FM OSC
L7
L2,4,5 : LOW and HIGH RANGE SENSITIVITY
SW102
IC101 LM7000
J101
FRONT
IC2 TC4052BP
IC3
M5218P
IC1
M5218P-21
CD/VTR
PHONO
J1
J3
J5
J4
P2
R G L
VR202
REC LEVEL (L)
TEST TERMINAL LINE OUT
L G R
P1
VR202b
REC LEVEL (R)
FL201
BIAS LEAK (L)
IC201 LA2730
SW201
IC201 LA2730
FL201b
BIAS LEAK (R)
VR201
PB LEVEL (L)
VR201b PB LEVEL (R)
NORMAL BIAS
VR203 (L)
VR203b (R)
BOTTOM

Fig. 6-2 BASE PCB (Parts Side View)

Step	Adjustment Item	Input Signal or Test Tape	Mode	Adjustment Parts	Result	Remarks
1	PB LEVEL	315Hz	PB	VR201	−19.7 ± 1.5dB	
2	NORMAL BIAS	NORMAL Blank Tape 1kHz, 10kHz −39.7dBm	REC/ PB	VR203	1kHz, 10kHz −39.7 ± 0.3dBm	BEAT SW: NORMAL
3	REC LEVEL	NORMAL Blank Tape 315Hz, −19.7dBm	REC/ PB	VR202	−19.7 ± 0.2dBm	BEAT SW: NORMAL
4	BIAS LEAK	NO SIGNAL	REC	FL201	Less than −60dBm	BEAT

NOTE: 1. All adjustments are without Dolby.
2. Use the following cassette measuring tapes:
NORMAL TAPE : Maxell UDI C-60
CrO_2 TAPE : TDK SA C-60

6-3. INSTRUMENT CONNECTIONS FOR TUNER ADJUSTMENT

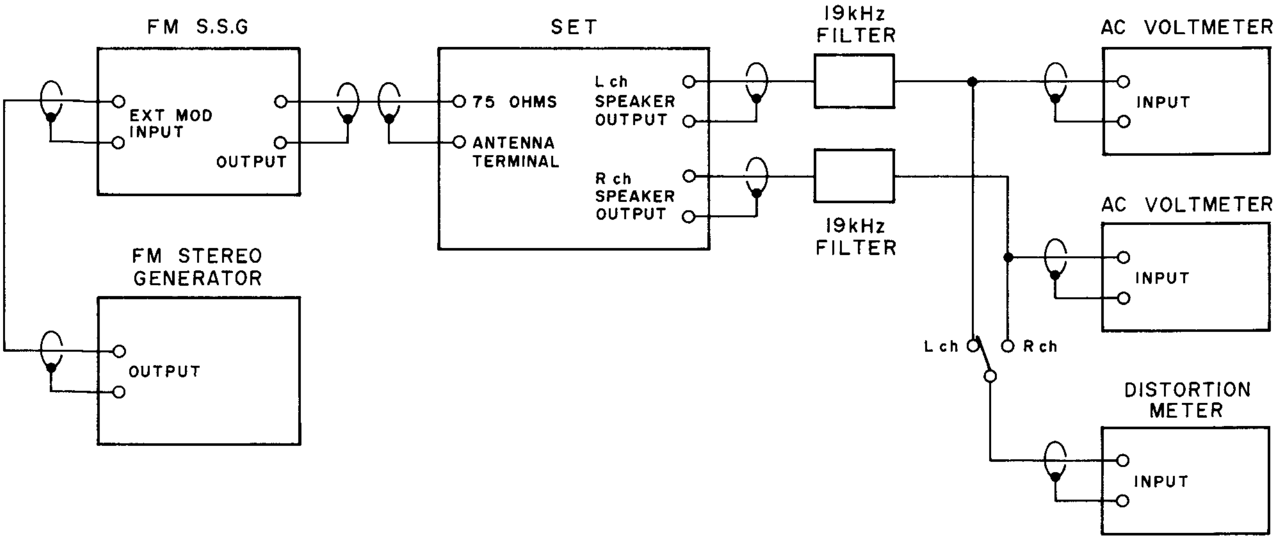

FM S.S.G
EXT MOD INPUT
OUTPUT
SET
75 OHMS
ANTENNA TERMINAL
L ch SPEAKER OUTPUT
R ch SPEAKER OUTPUT
19kHz FILTER
19kHz FILTER
AC VOLTMETER
INPUT
AC VOLTMETER
INPUT
FM STEREO GENERATOR
OUTPUT
L ch
R ch
DISTORTION METER
INPUT

Fig. 6-3 Instrument Connections for FM Section Adjustment

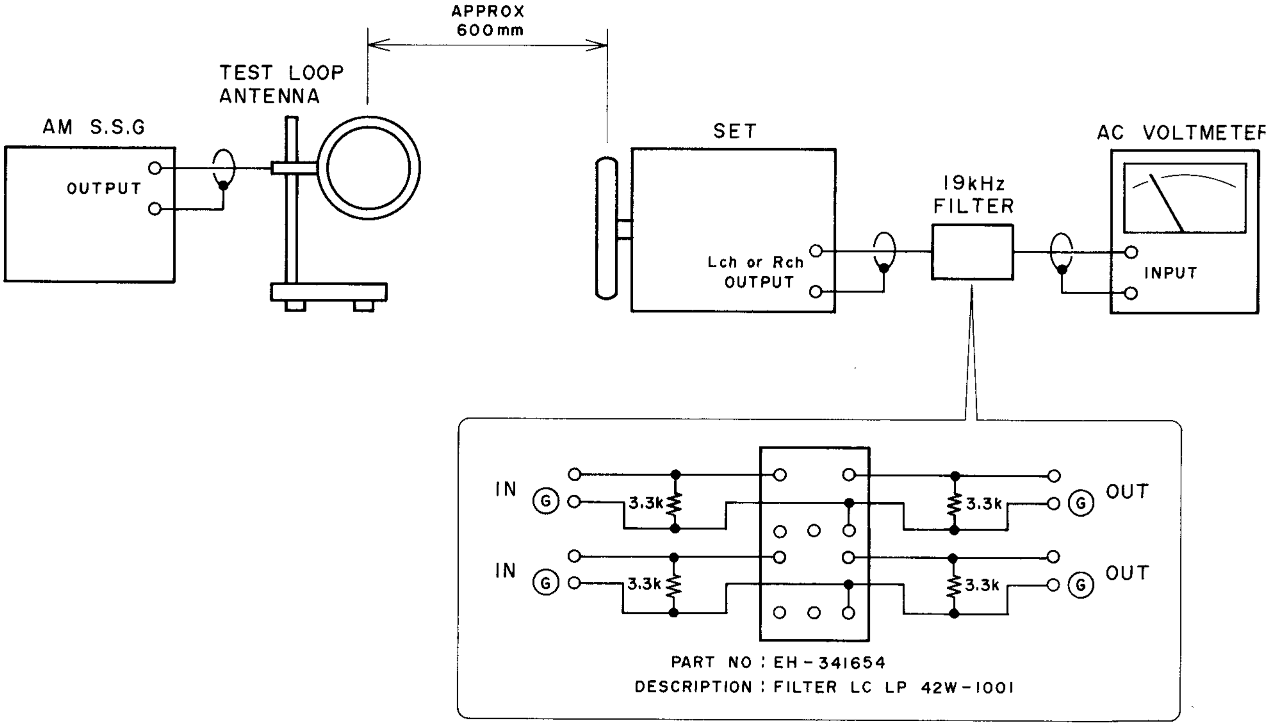

APPROX 600mm
TEST LOOP ANTENNA
AM S.S.G
OUTPUT
SET
Lch or Rch OUTPUT
19kHz FILTER
AC VOLTMETEF
INPUT
IN
G
3.3k
IN
G
3.3k
3.3k
OUT
G
3.3k
OUT
G
PART NO : EH-341654
DESCRIPTION : FILTER LC LP 42W-1001

Fig. 6-4 Instrument Connections for AM (MW, LW) Section Adjustment

6-4. HOW TO ADJUST TUNING COIL

Normally, no adjustment will be required of the coils within the front end. If, however, any of the coils has inadvertently been stretched and its adjustment needs to be restored, follow the procedure below for re-adjustment.

1) Contact the stretched coil to restore its original form.
2) Open one end of the coil (by refering to the illustration).
3) After the above preparations, first adjust the low range by confirming to the adjusting procedure. The coil stretching procedure for this process is shown in Fig. .
4) Next, similarly adjust the high range.
5) Repeat 3 and 4 a few times until the best possible sensitivity is attained.

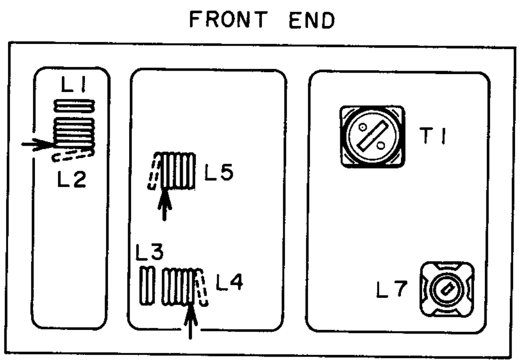

FRONT END
L1
L2
L5
L3
L4
T1
L7

Fig. 6-5

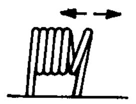


Fig. 6-6

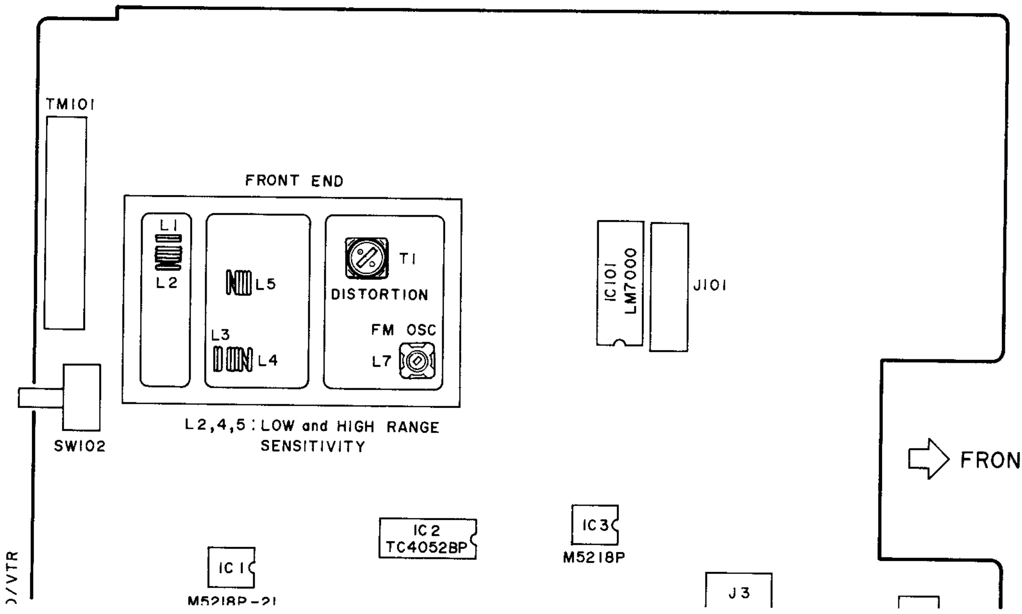

TM101
FRONT END
L1
L2
L5
L3
L4
T1
DISTORTION
FM OSC
L7
L2,4,5 : LOW and HIGH RANGE SENSITIVITY
SW102
IC101
LM7000
J101
FRONT
IC2
TC4052BP
IC3
M5218P
IC1
M5218P-21
J3
)/VTR

Fig. 6-7 BASE PC BOARD

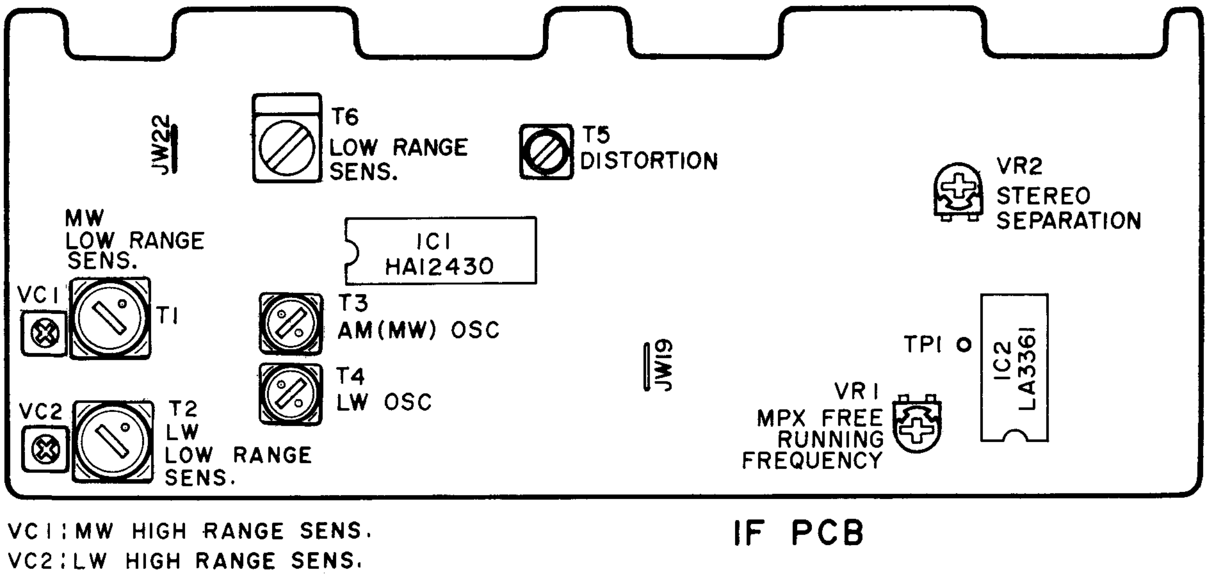

JW22
T6
LOW RANGE
SENS.
T5
DISTORTION
VR2
STEREO
SEPARATION
MW
LOW RANGE
SENS.
IC1
HA12430
VC1
T1
T3
AM(MW) OSC
T4
LW OSC
JW19
TP1
IC2
LA3361
VR1
MPX FREE
RUNNING
FREQUENCY
VC2
T2
LW
LOW RANGE
SENS.
VC1 : MW HIGH RANGE SENS.
VC2 : LW HIGH RANGE SENS.
IF PCB

Fig. 6-8 IF PCB (Parts Side View)

6-5. FM SECTION ADJUSTMENTS

NOTE:
1) Set the S.S.G. to 1kHz, 75kHz diviation for U,C,A,S 40kHz diviation for B,E,V.
2) Set the Band Switch to FM.
3) (MHz) indicate for B,E,V model.
4) 0dBu = 1uV
5) Set the Equalizer to flat position.

Step	Adjustment Item	S.S.G. Freq./ATT	SET Tuning	Adjustment Parts	Result	Remarks
1	FM OSC	–	87.5MHz	L7 (Front End)	3.5±0.05V	1) Connect a Digital Volt Meter between JW22 and GND.
2	LOW RANGE Sensitivity	88MHz 10dBu (MONO)	88MHz	L2,L4,L5 (Front End)	Less than 3% Distortion	1) Connect a wire between Base of JW19 and GND. (Mute OFF)
3	High Range Sensitivity	108MHz 10dBu (MONO)	108MHz	L2,L4,L5 (Front End)	Less than 3% Distortion	1) Connect a wire between JW19 and GND. (Mute OFF)
4	For best Result, Repeat steps 2 and 3 two or three times.					
5	Distortion (MONO)	88MHz 60dBu (MONO)	88MHz	T5	Less than 1% Distortion	
6	MPX Free Running Frequency	–	–	VR1	19kHz±50Hz	1) Connect a Frequency counter between TP1 and GND.
7	Distortion (Stereo)	98MHz 60dBu Stereo Lch (Rch)	98MHz	T1 (Front End)	Less than 1% Distortion	See Note 3
8	Stereo Separation	98MHz 60dBu Stereo Lch (Rch)	98MHz	VR2	More than 35dBm Minimum Output of Rch (Lch)	

6-6. LW SECTION ADJUSTMENTS (AT-A200L ONLY)

NOTE: 1) Set the S.S.G. to 1kHz 30% modulation.
2) Set the Equalizer to flat position.

Step	Adjustment Item	S.S.G. Freq./ATT	SET Tuning	Adjustment Parts	Result	Remarks
1	LW OSC	–	300kHz	T4	5.82±0.05V	1) Connect a Digital volt Meter between JW22 and GND.
2	LOW Range Sensitivity	160kHz 65dBu	160kHz	T2,T6	Less than 10% Distortion	
3	High Range Sensitivity	300kHz 65dBu	300kHz	VC2	Less than 10% Distortion	
4	For best Result, Repeat steps 2 and 3 two or three times.					
5	Distortion Confirmation	200kHz 74dBu	200kHz	None	Less than 3% Distortion	

6-7. AM (MW) SECTION ADJUSTMENT

NOTE: 1) Set the S.S.G. to 1kHz 30% modulation.
2) (kHz) in S.S.G. frequency and set tuning indicates the Test Frequency in AM 9kHz STEP Area.
3) Set the Equalizer to flat position.

Step	Adjustment Item	S.S.G. Freq./ATT	SET Tuning	Adjustment Parts	Result	Remarks
1	AM (MW) OSC	–	1400kHz (1404kHz)	T3	6.7±0.1V	1) Connect a Digital volt Meter between JW22 and GND.
2	Low Range Sensitivity	600kHz (603kHz) 60dBu	600kHz (603kHz)	T1,T6	Less than 10% Distortion	
3	High Range Sensitivity	1400kHz (1404kHz) 60dBu	1400kHz (1404kHz)	VC1	Less than 10% Distortion	
4	For best Result, Repeat Steps 2 and 3 two or three times.					
5	Distortion (Confirmation)	1000kHz (999kHz) 74dBu	1000kHz (999kHz)	None	Less than 2% Distortion	

VII. PC BOARD TITLES AND IDENTIFICATION NUMBERS

PC BOARD TITLE	PC BOARD NUMBER	REMARKS
MAIN AMP PC BOARD	C1005A507A	$\boxed{U}$
MAIN AMP PC BORAD	508A	$\boxed{C,A}$
MAIN AMP PC BOARD	509A	$\boxed{E,V,B,S}$
POWER SUPPLY PC BOARD	C1005A507B	$\boxed{U}$
POWER SUPPLY PC BOARD	508B	$\boxed{C,A}$
POWER SUPPLY PC BOARD	509B	$\boxed{E,V,B,S}$
FUNCTION LED PC BOARD	C1005A507C	$\boxed{U}$
FUNCTION LED PC BOARD	508C	$\boxed{C,A}$
FUNCTION LED PC BOARD	509C	$\boxed{E,V,B,S}$
HEADPHONE PC BOARD	C1005A507D	$\boxed{U}$
HEADPHONE PC BOARD	508D	$\boxed{C,A}$
HEADPHONE PC BOARD	509D	$\boxed{E,V,B,S}$
G.EQ PC BOARD	C1005A502A	
VOLUME PC BOARD	C1005A502B	
CONTROL PC BOARD	C1005A5010	
IF-A PC BOARD	C1005B505A	AC-A100
IF-B PC BOARD	C1005B506A	AC-A100L
BASE PC BOARD	C1005A503A	
LED PC BOARD	C1005A503B	

SECTION 4

PARTS LIST

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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because part numbers and part definitions and supply in the Preliminary Parts List may have been the subject of changes, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the parts list
   a) Mechanism Block
   b) P.C Board Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20×03STL CMT
2-4	ZS-536488	BID20×08STL CMT
2-5	ZG-402895	CS ANGLE ADJUST SPRING

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

6. SYS. CON. P C BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-IC3	EI-331661	IC SN7405N
6-IC4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X1	EI-318384	OSC X'TAL NC-18C 3.579545MHZ

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

WARNING

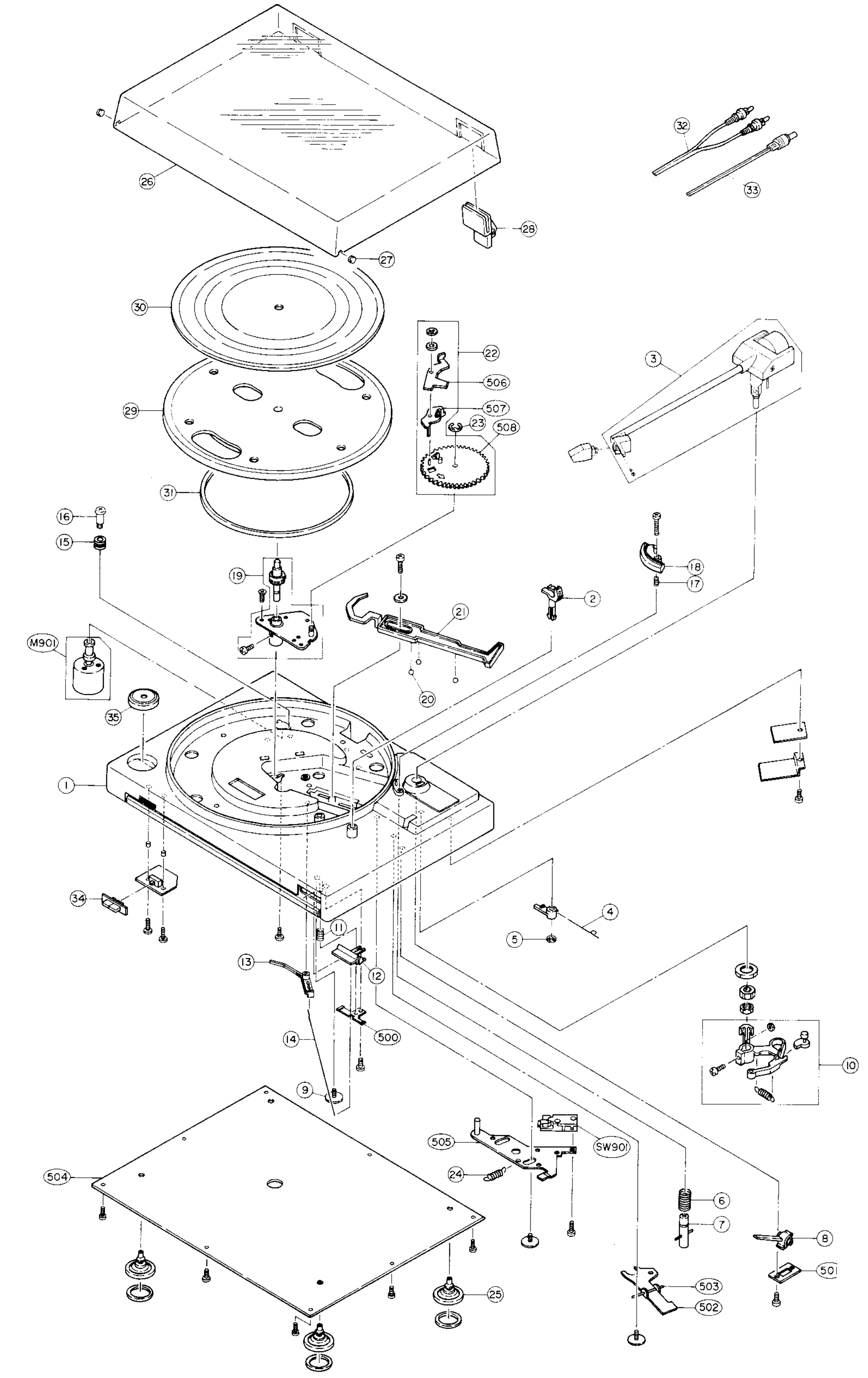
⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

I. MODEL AP-A100/C

FINAL ASSEMBLY BLOCK



NOTE: Parts listed in 1 to SW901 on the exploded view and list are normally stocked for replacement purpose. The remaining parts shown in this manual are not normally stocked, because they are seldom required for routine service.

Optional Accessory
Cartridge PC-35

1. MOTOR PC BOARD

REF. NO.	PART NO.	DESCRIPTION
1-IC1	EI-357879	IC LA5512
1-SW1	ES-358768	SW SLIDE SSY322-059
1-VR1,VR2	EV-315416	R S-FIX H D8 3P 103

SYMBOL FOR DESTINATION
[A] : AAL (USA)
[B] : UK (England)

2. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1	BC-358036A	CABINET AP-A100
2-1B	BC-358036B	CABINET AP-A100-B
2-2	TP-358836	CLAMPER ARM
2-3	TP-351625	TONE ARM ARM-A1
2-4	ZG-353257	SP TORSION CANCELER
2-5	ZW-340648	RING CS 190STL PKR
2-6	ZG-325402	SP ELEVATION
2-7	TP-345341	SHAFT ELEVATION
2-8	SK-345362A	KNOB ELEVATION
2-8B	SK-345362E	KNOB ELEVATION-B
2-9	ZS-358930	SCREW B Y 3824
2-10	TP-P1034A040A	PU PLATE BLK AP-B1
2-11	ZG-313181	SP C-04.5/0.35-16.0 C-028
2-12	SK-351739	KNOB CUT
2-13	ML-358006	LEVER MANUAL
2-14	MZ-358034	WIRE CUT
2-15	MB-345351B	CUSHION RUBBER (2)
2-16	ZS-350767	SCREW
2-17	ZG-332548	SP PUSH (A)
2-18	TP -B332568X2	ARM ELEVATION PART
2-19	TP-B345367	CHASSIS SPINDLE PART
2-20	MV-269965	BALL 400STL
2-21	ML-345348	LEVER AUTO
2-22	TP-P1034A080A	GEAR MAIN BLK AP-B1
2-23	ZW-270101	RING E 300SUP CMT
2-24	ZG-313073	SP T1-06.3/0.50-28.0 T1-18510
2-25	SA-332577C	INSULATOR (C)
2-26	BC-B332582	DUST COVER PART
2-27	TP-301300	COVER CUSHION
2-28	TP-336361	HINGE AUTO OH-5
2-28B	TP-336362	HINGE AUTO OH-5-BL
2-29	TP-348321	PLATTER
2-30A	TP-348266A	TABLE SHEET A [U,B]
2-30B	TP-348266B	TABLE SHEET B [A]
2-31	MB-355119	BELT EP
2-32A	EW-358749	CORD 2P AUDIO CORD [U,B]
2-32B	EW-358750	CORD 2P AUDIO UL [A]
2-33	EW-358754	CORD 2CORES DC CORD UL
2-34	SK-351613B	KNOB SLIDE-B
2-35	AX-332567C	45 ADAPTER-S
2-35B	AX-332567D	45 ADAPTER-B
2-M901	BM-354988	MOTOR BFD2R16
2-SW901	ES-316432	SW MICRO K2(P)

SYMBOL FOR COLOR VARIATION
NON : STANDARD COLOR
B OR BL : BLACK

II. MODEL AP-A200/C

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PART NO.	DESCRIPTION
1 N	BM-360085	⚠ MOTOR SS09DA
2	ED-349656	D LED AY5505S
3	ED-337391	D LED GL5NG6 GREEN
4	ED-557447	D SILICON H 1S1588
5	ED-708712	D SILICON 1S1555
6	EI-780137	IC VC1031
7	ES-325488	SW MICRO K1(P)
8	ES-337843	SW PUSH ESB-64501 02-2
9	ET-308867	TR 2SA1015 O,Y,GR
10	ET-742510	TR 2SA950 O,Y
11	ET-330225	TR 2SC1815 BL
12	ET-328844	TR 2SC3120 O,Y
13	EV-780138	R S-FIX 103
14	TP-P1034A080A	MAIN GEAR BLK AP-B1

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

[A]: AAL (USA)

[B]: UK (England)

[U]: U/T (Universal Area)

1. MOTOR PC BOARD

REF. NO.	PART NO.	DESCRIPTION
1-IC1	EI-780137	IC VC1031
1-Q1,Q2	ET-328844	TR 2SC2110 O,Y
1-Q3,Q4	ET-742510	TR 2SA950 O,Y
1-Q5,Q6	ET-308867	TR 2SA1015 O,Y,GR
1-Q7,Q8	ET-330225	TR 2SC1815 BL
1-Q9	ET-308867	TR 2SA1015 O,Y,GR
1-Q10	ET-330225	TR 2SC1815 BL
1-Q11	ET-742510	TR 2SA950 O,Y
1-D1	ED-708712	D SILICON 1S1555
1-VR1	EV-780138	R S-FIX 103
1-R1	ER-353877	⚠ R OMF H S15 FS 1W 1R0J

2. SPEED SELECTOR PC BOARD

REF. NO.	PART NO.	DESCRIPTION
2-D1,D2	ED-557447	D SILICON H 1S1588
2-SW1	ES-337843	SW PUSH ESB-64501 02-2

3. LED PC BOARD

REF. NO.	PART NO.	DESCRIPTION
3-D1	ED-337391	D LED GL5NG6 GREEN
3-D2	ED-349656	D LED AY5505S

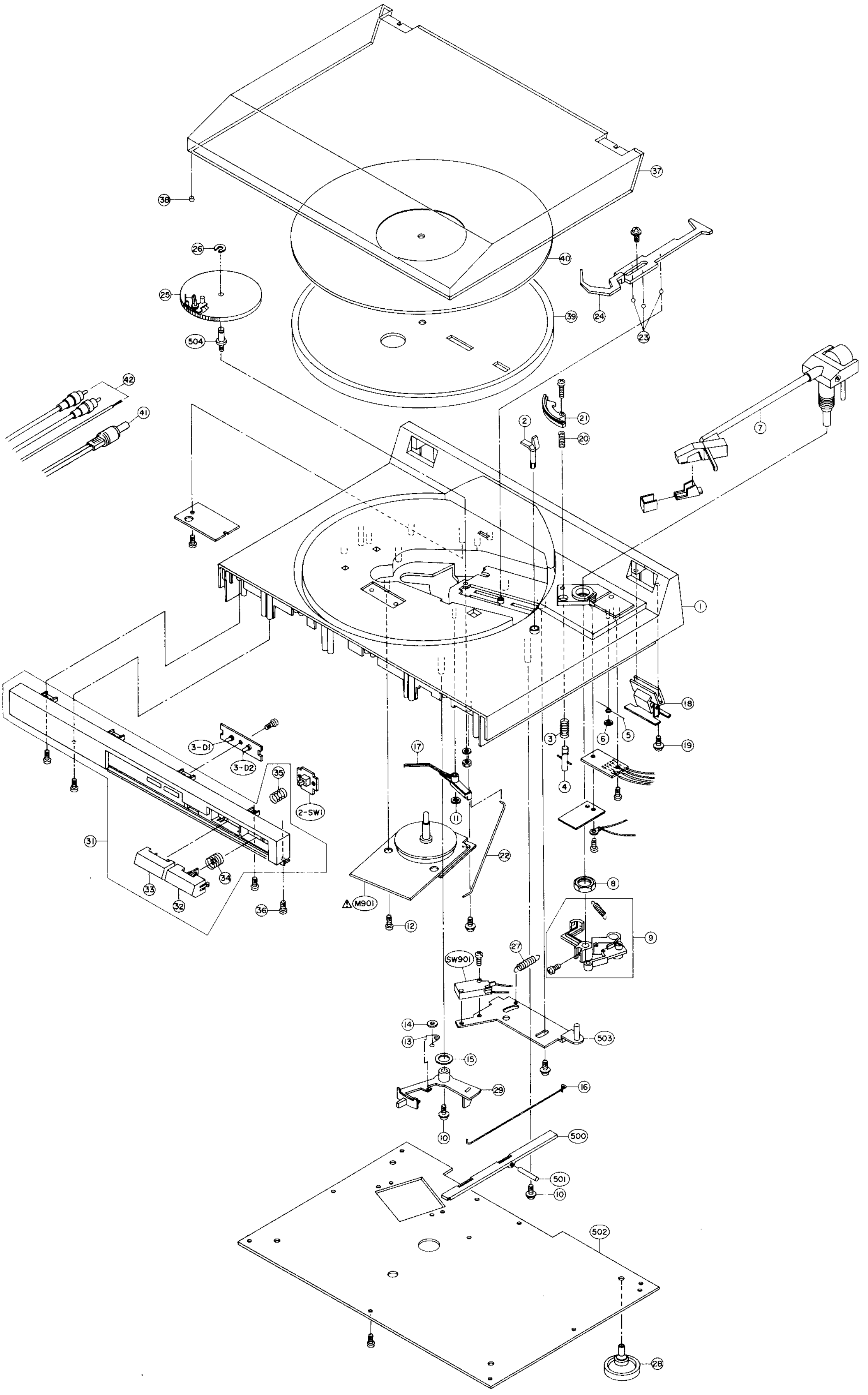
4. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
4-1	BC-353231D	CABINET (2)
4-1B	BC-353231F	CABINET (2)-B
4-2	TP-358836	CLAMPER ARM
4-3	ZG-358951	SP ELEVATION
4-4	MS-353238	SHAFT ELEVATION
4-5	ZG-353257	SP TORSION CANCELER
4-6	ZW-340648	RING CS 190STL PKR
4-7	TP-353252	TONE ARM ARM-A2
4-8	ZW-325521	N120×170×30STL CMT P100
4-9	TP-P1037A040A	LEVER PU PLATE BLK AP-A2
4-10	ZS-358930	SCREW B Y 3824
4-11	ZW-340648	RING CS 190STL PKR
4-12	ZS-310984	PT BR30×08STL CMT
4-13	ZG-358000	SP TORSION KNOB
4-14	ZW-331536	PW21×050×013PSL
4-15	ZW-382083	WASHER (NYLON) D6.1×13×1T
4-16	TP-358003	WIRE ELEVATION
4-17	ML-358006	LEVER MANUAL
4-18	TP-353712	HINGE ASSY AP-A2
4-19	ZS-349118	SCREW W/FRANGE
4-20	ZG-332548	SP PUSH (A)
4-21	TP-B332568X2	ARM ELEVATION PART
4-22	TP-360072	LEVER REJECT (B)
4-23	MV-269965	BALL 400STL
4-24	ML-345348	LEVER AUTO
4-25	TP-P1034A080A	MAIN GEAR BLK AP-B1
4-26	ZW-290283	RING U 285SUP CMT
4-27	ZG-313073	SP T1-06.3/0.50-28.0 T1-185
4-28	SA-332577	INSULATOR
4-29	TP-358012A	ANGLE LIFTER
4-29B	TP-358012B	ANGLE LIFTER-B
4-30xA	AX-332567C	45 ADAPTER-S
4-30xB	AX-332567D	45 ADAPTER-B
4-31	BD-P1047A020A	PANEL FRONT BLK AP-A200-C
4-31B	BD-P1047A020B	PANEL FRONT BLK AP-A200-CB
4-32	SK-358010A	KNOB CUT
4-33	SK-358011A	KNOB SPEED
4-34	ZG-358952	SP KNOB (B)
4-35	SP-359109	SP KNOB (C)
4-36	ZS-332009	PT BR30×06STL CMT [PANEL FRONT FIX]
4-37	BC-B353247	DUST COVER PART
4-38	MB-343057	COVER CUSHION
4-39	TP-B358014	PLATTER PART
4-40A	TP-348266B	TABLE SHEET B [A]
4-40B	TP-348266A	TABLE SHEET A [U,B]
4-41	EW-358754	CORD 2CORES DC CORD UL
4-42A	EW-358750	CORD 2P AUDIO UL [A]
4-42B	EW-358749	CORD 2P AUDIO CORD [U,B]
4-M901	BM-360085	⚠ MOTOR SS09DA
4-SW901	ES-325488	SW MICRO K1(P)

NOTE: Parts listed in 1 to SW901 on the exploded view and list are normally stocked for replacement purpose. The remaining parts shown in this manual are not normally stocked, because they are seldom required for routine service.

Optional Accessory
Cartridge PC-35

FINAL ASSEMBLY BLOCK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III. MODEL AC-A100/L

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

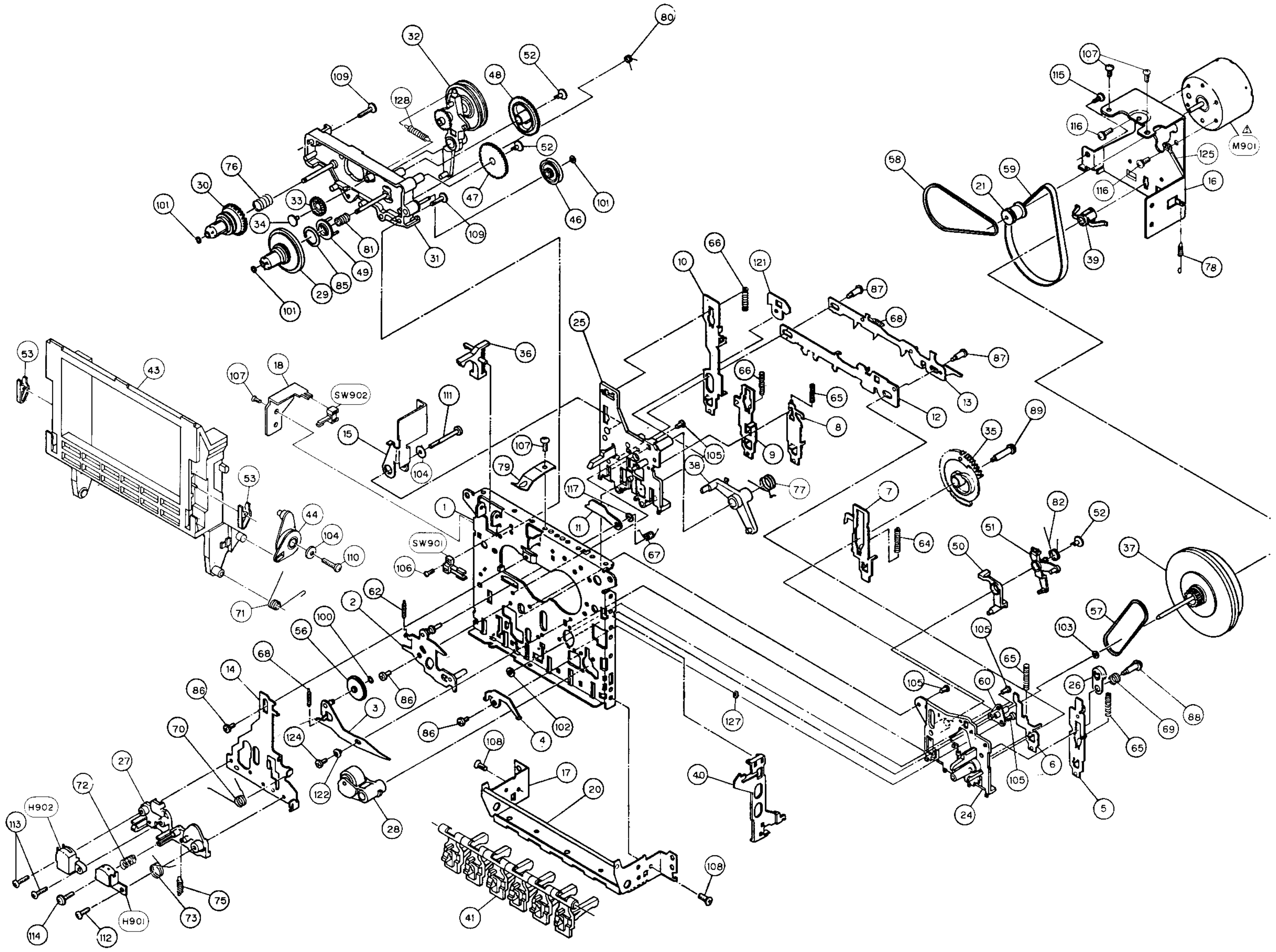
REF. NO.	PART NO.	DESCRIPTION
1	BF-712807	FLFWHEEL ASSY
2	BL-712799	PINCH ROLLER ARM ASSY
3	BM-712825	⚠ MOTOR (W/PULLEY) ASSY
4 N	BT-359042	⚠ TRANS POWER C1005T-20(A)
5 N	BT-359041	⚠ TRANS POWER C1005T-30(C)
6 N	BT-359045	⚠ TRANS POWER C1005T-40(E,V)
7 N	BT-359046	⚠ TRANS POWER C1005T-50(S,B)
8 N	BT-359040	⚠ TRANS POWR C1005T-70(U,Y1)
9 N	EC-359065	CS-FIX H CTC-6U-020 4.3-20
10	ED-200213	⚠ D SILICON DBA40C-K15 200/2.6A
11	ED-346616	⚠ D ZENER H HZ12 B3
12	ED-337391	D LED GL5NG6 GREEN
13	ED-321269	D LED GL5PR6 RED
14	ED-348200	⚠ D SILICON DBA20C-K15 200/2.0A
15	ED-357754	D SILICON DS135D 200/1.0A
16	ED-301911	D SILICON H DS448
17	ED-344280	D SILICON H GMA-01-FY2 F05
18	ED-349460	D VARACTER SVC321 A,B,C,D DOUBLE
19	ED-349448	D VARACTOR 1SV147
20	ED-310387	D ZENER H HZ12 B2
21	ED-310607	D ZENER H HZ18 2
22	ED-329056	D ZENER H HZ22 2
23	ED-346455	D ZENER H HZ27FA F10 A1
24	ED-302269	D ZENER H HZ5 A2
25	ED-306316	D ZENER H HZ5 C2
26	ED-331617	D ZENER H HZ6 A3
27	ED-331197	D ZENER H HZ6 C1
28	ED-337265	D ZENER H HZ6 C2
29 N	EF-355226	⚠ FUSE BET T 1.00A 250V [B]
30 N	EF-359007	⚠ FUSE BET T 1.25A 250V [B]
31 N	EF-359225	⚠ FUSE BET T 3.15A 250V [B]
32 N	EF-359086	⚠ FUSE BET T 4.00A 250V [B]
33	EF-623103	⚠ FUSE SEMKO T 1.00A 250V [E,V,S]
34	EF-602550	⚠ FUSE SEMKO T 1.25A 250V [E,V,S]
35	EF-691007	⚠ FUSE SEMKO T 3.15A 250V [E,V,S]
36	EF-690996	⚠ FUSE SEMKO T 4.00A 250V [E,V,S]
37	EF-311839	⚠ FUSE TSC A 250V 1.60A [U,Y1]
38	EF-306952	⚠ FUSE TSC A 250V 4.00A [U,Y1]
39	EF-309392	⚠ FUSE TSC 125V 1.25A [C,A]
40	EF-323080	⚠ FUSE TSC 125V 3.15A [C,A]
41	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
42	EH-336804	FILTER CE SFE10.7MA8 10.7MHz
43	EH-345550	FILTER CE SFE10.7MS26K-Z
44	EH-355568	FILTER CE SFE10.7MS2GY-A
45	EH-351182	FILTER DB 201AK-005 100kHz
46 N	EH-355382	FILTER LC BP 79-5151-11 [V]
47 N	EI-358554	⚠ IC STK4152-2
48 N	EI-359048	IC C1005-736
49 N	EI-359060	IC HA12430
50	EI-349591	IC LA2730
51 N	EI-359061	IC LA3361
52 N	EI-359053	IC LA3600
53	EI-354951	IC LM7000
54	EI-349719	IC M5218P
55	EI-344764	IC M5218P-21
56	EI-332259	IC TC4052BP
57	EI-348409	OSC CE CSB400P 0.4MHz
58	EI-344422	OSC X'TAL HC-18/U 7.200000MHz
59	EM-353670	IND FL 8-BT-29ZK CHARACTER
60	EO-336829	COIL OSC 2 7NR-7818F 125UH
61 N	EO-359062	COIL OSC2 7BR-9585F [L]
62	EO-337598	COIL VARI 2 25A-1353-01
63	EO-337599	COIL VARI 2 25A-1354-03 [L]
64	ER-319455	⚠ R FUSE ERD2FC S10 1/4W 10R0G
65	ER-318647	⚠ R FUSE ERD2FC S10 1/4W 4R7J
66	ER-345507	⚠ R FUSE ERD2FC S10 1/4W 220J
67	ES-337902	⚠ SW PUSH SDLD1P002 01-1
68	ES-349070	⚠ SW SELECTOR YKS11-0002 02-4 [U,Y1]
69 N	ES-716377	SW LEAF LSA-1120YN
70 N	ES-359070	SW LEVER SLY182 2-08-02N
71	ES-713179	SW LSA-1123-37
72 N	ES-359068	SW PUSH ESB-62556
73 N	ES-359071	SW PUSH ESB-62771 2-02-02N
74	ES-349056	SW PUSH ESB-62915 6 THROW
75 N	ES-360115	SW SLIDE 00120262 01-02S [U,Y1]
76 N	ES-360114	SW SLIDE 00220658 02-02S
77	ES-344445	SW TACT EVQ-QHR12B
78	ES-349367	SW TACT SKHHAB044A
79	ET-322598	⚠ TR 2SB632K E,F
80	ET-349459	⚠ TR 2SD1406 O,Y,GR
81	ET-351853	TR FET 2SK161 Y
82	ET-352408	TR FET 2SK192A GR [L]
83	ET-337759	TR FET 2SK246 GR
84 N	ET-355216	TR 2SA1317 T,U
85	ET-353899	TR 2SA1317 S,T,U
86	ET-349718	TR 2SA1392 S,T
87	ET-308977	TR 2SC2274K F
88	ET-344275	TR 2SC2320L F,G
89	ET-338410	TR 2SC2878 A,B [L]
90	ET-336869	TR 2SC2999 C,D
91	ET-353366	TR 2SC3112 A,B
92	ET-353898	TR 2SC3330
93 N	ET-360137	TR 2SC3330 U,V
94	ET-349081	TR 2SC3383 S,T
95	ET-350795	TR 2SC3399
96	ET-349366	TR 2SC3402
97	ET-328265	TR 2SC930 F
98	ET-338565	TR 2SD1302 R,S
99	ET-310148	TR 2SD612K E,F
100	EV-356579	R S-FIX H H0615C 3P 102
101	EV-356577	R S-FIX H H0615C 3P 103
102 N	EV-359093	R S-FIX RVF8W01
103 N	EV-359051	VR ROTARY 16P20x3x B104
104 N	EV-359083	VR SLIDE 30PSVOH MN254
105 N	EV-359219	VR SLIDE 30P2SVOI W104
106 N	EZ-358816	BATTERY LITHIUM BR2032-1HF
107	HE-337047	HEAD E HAJAB3040A C
108	HP-712824	HEAD R/P HY424528 SVK
109	MB-712818	BELT AUTO
110	MB-712820	BELT DRIVE
111	MB-712819	BELT FR
112	MB-351605	BELT 0.8XD593 CRHS65
113	MC-353312	COUNTER MK395-043 (BLACK)
114	MI-715935	CLUTCH ARM ASSY
115	MI-715920	CLUTCH AUTO
116	MI-712813	GEAR AUTO
117	MI-711710	GEAR C
118	MI-712814	GEAR CAM AUTO
119	MI-712804	GEAR FF
120	MI-712817	IDLER PLAY
121	MV-716186	MAIN CASE

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

[A]: AAL (U.S.A.)
[B]: UK (England)
[C]: CSA (Canada)
[E]: CEE (Europe)
[S]: SAA (Australia)
[U]: U/T (Universal Area)
[V]: VDE (West Germany)

MECHA BLOCK



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1. MECHA BLOCK

REF. NO.	PART NO.	DESCRIPTION
1-1	BB-359082	MECHA AKI-95FMF BLK
1-24	ML-716375	LEVER HOLDER (A)
1-26	MZ-716171	CAM PAUSE
1-27	MZ-716172	HEAD BASE
1-28	BL-712799	PINCH ROLLER ARM ASSY
1-29	BR-715918	TAKE-UP REEL TABLE BLK HX-M10
1-30	BT-715919	SUPPLY REEL TABLE BLK HX-M10
1-32	MI-715935	CLUTCH ARM ASSY
1-33	MI-712804	GEAR FF
1-34	MZ-749256	BUSH
1-35	MI-711710	GEAR C
1-36	ML-712806	REC SENSOR
1-37	BF-712807	FLYWHEEL ASSY
1-38	ML-716175	ARM LOCK (H)
1-39	MZ-712808	HOLDER CAPSTAN
1-40	ML-712809	LEVER EJECT
1-41	SB-716178	BUTTON LEVER
1-43	TC-712810	LID FRAME
1-44	TC-712811	DAMPER ASSY
1-46	MI-712812	PULLEY AUTO
1-47	MI-712813	GEAR AUTO
1-48	MI-712814	GEAR CAM AUTO
1-49	MI-715920	CLUTCH AUTO
1-50	ML-716179	ARM AUTO (B)
1-51	ML-716180	ARM AUTO LOCK
1-52	ZW-716181	BUSH
1-53	ZG-712816	CLAMP CASSETTE
1-56	MI-712817	IDLER PLAY
1-57	MB-712818	BELT AUTO
1-58	MB-712819	BELT FR
1-59	MB-712820	BELT DRIVE
1-60	MV-716186	MAIN CASE
1-67	ZG-716187	SP REC LEVER
1-68	ZG-716188	SP CAM
1-69	ZG-716189	SP PAUSE CAM
1-70	ZG-716190	SP HEAD CHASSIS
1-72	ZG-749268	SP HEAD
1-73	ZG-715921	SP PINCH ROLLER
1-75	ZG-715940	SP HEAD RETURN
1-78	ZG-716193	SP EJECT LEVER
1-79	ZG-712822	SP PACK
1-80	ZG-716194	SP AUTO SENSOR
1-81	ZG-716355	SP AUTO CLUTCH
1-82	ZG-716197	SP AUTO LOCK ARM
1-85	TC-712823	FELT AUTO CLUTCH
1-112	ZS-536488	BID20×08STL CMT
1-113	ZS-749292	BID20×085STL CMT
1-114	ZS-749293	BID20×09STL CMT TW
1-128	ZG-715922	SP CLUTCH ARM
1-H901	HP-712824	HEAD R/P HY424528 SVK
1-H902	HE-337047	HEAD E HAJAB3040A C
1-M901	BM-712825	⚠ MOTOR (W/PULLEY) ASSY
1-SW901	ES-716377	SW LEAF LSA-1120YN
1-SW902	ES-713179	SW LSA-1123-37

Note
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

2. PC BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1A	BA-C1005A020A	PC BASE BLK AC-A100(U)
2-1B	BA-C1005A020B	PC BASE BLK AC-A100(C,A)
2-1C	BA-C1005A020C	PC BASE BLK AC-A100(E)
2-1D	BA-C1005A020D	PC BASE BLK AC-A100(V)
2-1E	BA-C1005A020E	PC BASE BLK AC-A100(S)
2-1F	BA-C1005A020F	PC BASE BLK AC-A100L(E,B)
2-1G	BA-C1005A020G	PC BASE BLK AC-A100(Y1)
2-2A	BA-F0141A010A	PC FRONT END BLK FE41(U) [U,C,A,E,S,L]
2-2B	BA-F0141A010B	PC FRONT END BLK FE41(V) [V]
2-2C	BA-F0141A010C	PC FRONT END BLK FE41/SA(Y1) [Y1]
2-3A	BA-C1005A040A	PC IF BLK AC-A100(U,Y1)
2-3B	BA-C1005A040B	PC IF BLK AC-A100(C,A)
2-3C	BA-C1005A040C	PC IF BLK AC-A100(E)
2-3D	BA-C1005A040D	PC IF BLK AC-A100(V)
2-3E	BA-C1005A040E	PC IF BLK AC-A100(S)
2-3F	BA-C1005A040F	PC IF BLK AC-A100L
2-4A	BA-C1005A080A	PC MAIN AMP BLK AC-A100(U,Y1)
2-4B	BA-C1005A080B	PC MAIN AMP BLK AC-A100(C,A)
2-4C	BA-C1005A080C	PC MAIN AMP BLK AC-A100(E,B)
2-4D	BA-C1005A080D	PC MAIN AMP BLK AC-A100(V)
2-4E	BA-C1005A080E	PC MAIN AMP BLK AC-A100(S)
2-5A	BA-C1005A060A	PC CONTROL BLK AC-A100(U)
2-5B	BA-C1005A060B	PC CONTROL BLK AC-A100(C)
2-5C	BA-C1005A060C	PC CONTROL BLK AC-A100(A)
2-5D	BA-C1005A060D	PC CONTROL BLK AC-A100(E,V,S)
2-5E	BA-C1005A060E	PC CONTROL BLK AC-A100L
2-5F	BA-C1005A060F	PC CONTROL BLK AC-A100(Y1)
2-6A	BA-C1005A070A	PC GEQ BLK AC-A100(U) [EXCEPT V]
2-6B	BA-C1005A070B	PC GEQ BLK AC-A100(V)

NOTE:

(1) PC BASE BLK consists of following PC BOARDS.
- BASE PC BOARD
- LED PC BOARD

(2) PC MAIN AMP BLK consists of following PC BOARDS.
- MAIN AMP PC BOARD
- HEAD PHONE PC BOARD
- FUNCTION LED PC BOARD
- POWER SUPPLY PC BOARD

(3) PC GEQ BLK consists of following PC BOARDS.
- G.EQ PC BOARD
- VOLUME PC BOARD

3. BASE PC BOARD

REF. NO.	PART NO.	DESCRIPTION
3-IC1	EI-344764	IC M5218P-21
3-IC2	EI-332259	IC TC4052BP
3-IC3	EI-349719	IC M5218P
3-IC101	EI-354951	IC LM7000
3-IC201	EI-349591	IC LA2730
3-TR1	ET-355216	TR 2SA1317 T,U
3-TR2	ET-349718	TR 2SA1392 S,T
3-TR3	ET-349459	⚠ TR 2SD1406 O,Y,GR
3-TR4	ET-349081	TR 2SC3383 S,T
3-TR101	ET-328265	TR 2SC930 F
3-TR102	ET-337759	TR FET 2SK246 GR
3-TR103	ET-349081	TR 2SC3383 S,T
3-TR104	ET-353898	TR 2SC3330 [L]
3-TR105	ET-353898	TR 2SC3330 [L]
3-TR201	ET-344275	TR 2SC2320L F,G
3-TR202	ET-350795	TR 2SC3399
3-TR203	ET-349081	TR 2SC3383 S,T
3-TR204	ET-349081	TR 2SC3383 S,T
3-TR205	ET-349081	TR 2SC3383 S,T
3-TR206	ET-349081	TR 2SC3383 S,T
3-TR207	ET-349081	TR 2SC3383 S,T
3-TR208	ET-308977	TR 2SC2274K F
3-TR209	ET-308977	TR 2SC2274K F
3-TR210	ET-353898	TR 2SC3330
3-TR211	ET-310148	TR 2SD612K E,F
3-TR212	ET-360137	TR 2SC3330 U,V
3-TR213	ET-349366	TR 2SC3402
3-TR214	ET-349081	TR 2SC3383 S,T
3-TR215	ET-349081	TR 2SC3383 S,T
3-TR216	ET-349366	TR 2SC3402
3-TR217	ET-349366	⚠ TR 2SC3402
3-D1	ED-357754	D SILICON DS135D 200/1.0A
3-D2	ED-331197	D ZENER H HZ6 C1
3-D3	ED-346455	D ZENER H HZ27FA F10 A1
3-D4	ED-310387	⚠ D ZENER H HZ12 B2
3-D5	ED-357754	D SILICON DS135D 200/1.0A
3-D6	ED-301911	D SILICON H DS448
3-D101	ED-306316	D ZENER H HZ5 C2
3-D201	ED-344280	D SILICON H GMA-01-FY2 F05
3-D202	ED-344280	D SILICON H GMA-01-FY2 F05
3-D203	ED-344280	D SILICON H GMA-01-FY2 F05
3-D204	ED-331617	D ZENER H HZ6 A3
3-SW1	ES-359071	SW PUSH ESB-62771 2-02-02N
3-SW101	ES-360115	SW SLIDE 00120262 01-02S [U,Y1]
3-SW102	ES-344445	SW TACT EVQ-QHR12B
3-SW201	ES-359070	SW LEVER SLY182 2-08-02N
3-SW202	ES-359071	SW PUSH ESB-62771 2-02-02N
3-SW203	ES-359068	SW PUSH ESB-62556
3-SW204	ES-360114	SW SLIDE 00220658 02-02S
3-VR201	EV-359093	R S-FIX RVF8W01
3-VR202	EV-359093	R S-FIX RVF8W01
3-VR203	EV-359093	R S-FIX RVF8W01
3-FL101	EH-355568	FILTER CE SFE10.7MS2GY-A
3-FL201	EH-351182	FILTER DB 201AK-005 100kHz
3-FL202	EO-356809	COIL FIX 1 100Z-121 100.00KC
3-L2	EO-336934	COIL FIX 1 LAL03KH 2R2M [V]
3-L201	EO-357050	COIL FIX 1 RC875 822J
3-T201	EO-349589	COIL OSC 1 32-5016-12
3-X101	EI-344422	OSC X'TAL HC-18/U 7.200000MHz
3-FR1	ER-345507	⚠ R FUSE ERD2FC S10 1/4W 220J
3-R22	ER-328067	⚠ R CB H S10 FS RDS 1/4W 331J
3-R23	ER-328082	⚠ R CB H S10 FS RDS 1/4W 333J
3-R106	ER-306805	⚠ R CB H S15 FS RDS 1/2W 101J
3-R107	ER-327710	⚠ R CB H S10 FS RDS 1/4W 151J
3-R119	ER-360146	⚠ R OMF H S10 FS 1/2W 151J
3-C104	EC-347591	C MMY V F05 MMH63 474M 100DC
3-C232	EC-306445	FM/C.220PF(J)500WV
3-C237	EC-326138	C PP V F10 APH 182J 630DC
3-C238	EC-347263	C MC V F05 FM 221J 500DC
3-J1	EJ-336905	PIN J AJC-035-ACB P 4P
3-J2	EJ-359067	SOCKET INLET HECO470-01-640
3-TM101	EJ-359031	TERMINAL LEVER YK-D31-0215 P 2P

4. FRONT END PC BOARD

REF. NO.	PART NO.	DESCRIPTION
4-TR1	ET-351853	TR FET 2SK161 Y
4-TR2	ET-336869	TR 2SC2999 C,D
4-TR3	ET-328265	TR 2SC930 F
4-TR4	ET-351853	TR FET 2SK161 Y
4-D1	ED-349448	D VARACTOR 1SV147
4-D2	ED-349448	D VARACTOR 1SV147
4-D3	ED-349448	D VARACTOR 1SV147
4-D4	ED-349448	D VARACTOR 1SV147
4-L1	EO-349461	COIL FIX 2 LINK
4-L2	EO-349462	COIL FIX 2 U147
4-L3	EO-349461	COIL FIX 2 LINK
4-L4	EO-349462	COIL FIX 2 U147
4-L5	EO-349462	COIL FIX 2 U147
4-L6	ES-349056	SW PUSH ESB-62915 6 THROW
4-L7A	EO-353687	COIL OSC 2 E525HN-110003 [EXCEPT Y1]
4-L7B	EO-361840	COIL OSC 2 E525HNS-110011 [Y1]
4-T1	EO-337640	COIL IFT 119AC-15533X 10.7MHz

5. IF PC BOARD

REF. NO.	PART NO.	DESCRIPTION
5-IC1	EI-359060	IC HA12430
5-IC2	EI-359061	IC LA3361
5-TR1	ET-338410	TR 2SC2878 A,B [L]
5-TR2	ET-352408	TR FET 2SK192A GR [L]
5-TR3	ET-338410	TR 2SC2878 A,B [L]
5-TR4	ET-353898	TR 2SC3330 [L]
5-TR5	ET-353899	TR 2SA1317 S,T,U
5-TR6	ET-353899	TR 2SA1317 S,T,U
5-TR7	ET-353898	TR 2SC3330
5-TR8	ET-351853	TR FET 2SK161 Y
5-TR9	ET-328265	TR 2SC930 F
5-TR10	ET-351853	TR FET 2SK161 Y
5-TR11	ET-353898	TR 2SC3330
5-TR12	ET-353366	TR 2SC3112 A,B
5-TR13	ET-353366	TR 2SC3112 A,B
5-TR14	ET-349081	TR 2SC3383 S,T
5-TR15	ET-349081	TR 2SC3383 S,T
5-TR16	ET-349081	TR 2SC3383 S,T
5-D1	ED-349460	D VARACTER SVC321 A,B,C,D DOUBLE
5-D2	ED-349460	D VARACTER SVC321 A,B,C,D DOUBLE
5-D3	ED-344280	D SILICON H GMA-01-FY2 F05 [L]
5-D4	ED-344280	D SILICON H GMA-01-FY2 F05 [L]
5-D5	ED-344280	D SILICON H GMA-01-FY2 F05
5-D6	ED-337265	D ZENER H HZ6 C2
5-D7	ED-301911	D SILICON H DS448
5-D8	ED-344280	D SILICON H GMA-01-FY2 F05
5-VR1	EV-356577	R S-FIX H H0615C 3P 103
5-VR2	EV-356579	R S-FIX H H0615C 3P 102
5-FL1	EH-355568	FILTER CE SFE10.7MS2GY-A
5-FL2	EH-336804	FILTER CE SFE10.7MA8 10.7MHz
5-FL3	EH-355382	FILTER LC BP 79-5151-11 [V]
5-L1	EO-337523	COIL FIX 1 L-8 223J
5-L2	EO-337523	COIL FIX 1 L-8 223J
5-T1	EO-337598	COIL VARI 2 25A-1353-01
5-T2	EO-337599	COIL VARI 2 25A-1354-03 [L]
5-T3	EO-336829	COIL OSC 2 7NR-7818F 125UH
5-T4	EO-359062	COIL OSC 2 7BR-9585F [L]
5-T5	EO-359175	COIL DET 2 PM199CEA-14367Z
5-T6	EO-356732	COIL IFT BCFLZ-450A
5-VC1	EC-359065	CS-FIX H CTC-6U-020 4.3-20
5-VC2	EC-359065	CS-FIX H CTC-6U-020 4.3-20 [L]
5-R27	ER-360146	⚠ R OMF H S10 FS 1/2W 151J
5-R44	ER-328067	⚠ R CB H S10 FS RDS 1/4W 331J
5-C6A	EC-356597	C PP V F05 PP 431J 50DC [EXCEPT L]
5-C6B	EC-353044	C PP V F05 PP 511J 50DC [L]
5-C7	EC-346879	C PP V F05 PP 221J 50DC [L]
5-C40	EC-344483	C PP V F05 PP 102J 50DC
5-C51	EC-356598	C PP V F05 PP 302J 50DC
5-C52	EC-356598	C PP V F05 PP 302J 50DC

6. MAIN AMP PC BOARD

MAIN AMP PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC1	EI-358554	⚠ IC STK4152-2
6-TR1	ET-322598	⚠ TR 2SB632K E,F
6-TR2	ET-349459	⚠ TR 2SD1406 O,Y,GR
6-TR3	ET-353899	TR 2SA1317 S,T,U
6-TR4	ET-338565	TR 2SD1302 R,S
6-D1	ED-329056	D ZENER H HZ22 2
6-D2	ED-301911	D SILICON H DS448
6-D3	ED-200213	⚠ D SILICON DBA40C-K15 200/2.6A
6-D4	ED-310607	D ZENER H HZ18 2
6-D5	ED-348200	⚠ D SILICON DBA20C-K15 200/2.0A
6-D7	ED-346616	⚠ D ZENER H HZ12 B3
6-D8	ED-344280	D SILICON H GMA-01-FY2 F05
6-D9	ED-337265	D ZENER H HZ6 C2
6-D10	ED-302269	D ZENER H HZ5 A2
6-D11	ED-301911	D SILICON H DS448
6-D12	ED-301911	D SILICON H DS448
6-D13	ED-301911	D SILICON H DS448
6-L1	EO-337880	COIL FIX 2 202AK-018 2R2K
6-L2	EO-342936	COIL BALUN [V]
6-FR1	ER-319455	⚠ R FUSE ERD2FC S10 1/4W 10R0G
6-FR2	ER-319455	⚠ R FUSE ERD2FC S10 1/4W 10R0G
6-FR3	ER-345507	⚠ R FUSE ERD2FC S10 1/4W 220J
6-FR4	ER-318647	⚠ R FUSE ERD2FC S10 1/4W 4R7J
6-R6	ER-325269	⚠ R CB H S10 FS RDS 1/4W 222J
6-R9	ER-359266	⚠ R OMF H S12 FS 1W 100J
6-R10	ER-359266	⚠ R OMF H S12 FS 1W 100J
6-R13	ER-328082	⚠ R CB H S10 FS RDS 1/4W 332J
6-R16	ER-359269	⚠ R OMF H S12 FS 1W 221J
6-R17	ER-322591	⚠ R CB H S10 FS RDS 1/4W 101J [C,A]
6-R18	ER-322591	⚠ R CB H S10 FS RDS 1/4W 101J [C,A]
6-C13	EC-358538	C EC V CUT 472M 45.0DC
6-C14	EC-358538	C EC V CUT 472M 45.0DC
6-C17	EC-323846	C EC V CUT HA 102M 35DC
6-C24	EC-326583	C MMY V CUT CF921 473K 400DC
6-TM1	EJ-359264	TERMINAL LEVER YKD21-0023A P 4P

ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
6-F3A	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
6-F3B	EF-690996	⚠ FUSE SEMKO T 4.00A 250V [E,V,S, L(E)]
6-F3C	EF-359086	⚠ FUSE BET T 4.00A 250V [L(B)]
6-F4A	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
6-F4B	EF-690996	⚠ FUSE SEMKO T 4.00A 250V [E,V,S, L(E)]
6-F4C	EF-359086	⚠ FUSE BET T 4.00A 250V [L(B)]
6-F5A	EF-309392	⚠ FUSE TSC 125V 1.25A [C,A]
6-F5B	EF-623103	⚠ FUSE SEMKO T 1.00A 250V [E,V,S, L(E)]
6-F5C	EF-355226	⚠ FUSE BET T 1.00A 250V [L(B)]
6-F6A	EF-306952	⚠ FUSE TSC A 250V 4.00A [U,Y1]
6-F6B	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
6-F6C	EF-691007	⚠ FUSE SEMKO T 3.15A 250V [E,V,S, L(E)]
6-F6D	EF-359225	⚠ FUSE BET T 3.15A 250V [L(B)]
6-F7A	EF-306952	⚠ FUSE TSC A 250V 4.00A [U,Y1]
6-F7B	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
6-F7C	EF-691007	⚠ FUSE SEMKO T 3.15A 250V [E,V,S, L(E)]
6-F7D	EF-359225	⚠ FUSE BET T 3.15A 250V [L(B)]

7. G.EQ PC BOARD

REF. NO.	PART NO.	DESCRIPTION
7-IC1	EV-359053	IC LA3600
7-VR1	EV-359219	VR SLIDE 30P2SVOI W104
7-VR2	EV-359219	VR SLIDE 30P2SVOI W104
7-VR3	EV-359219	VR SLIDE 30P2SVOI W104
7-VR4	EV-359219	VR SLIDE 30P2SVOI W104
7-VR5	EV-359219	VR SLIDE 30P2SVOI W104
7-VR6	EV-359083	VR SLIDE 30PSVOH MN254

8. VOLUME PC BOARD

REF. NO.	PART NO.	DESCRIPTION
8-VR1	EV-359051	VR ROTARY 16P20x3x B104

9. HEAD PHONE PC BOARD

REF. NO.	PART NO.	DESCRIPTION
9-R1	ER-359268	R OMF H S12 FS 1W 181J
9-J1	EJ-359075	PHONE J HLJ4308-01-3040

10. CONTROL PC BOARD

REF. NO.	PART NO.	DESCRIPTION
10-IC1	EI-359048	IC C1005-736
10-TR1	ET-353899	TR 2SA1317 S,T,U [U,Y1]
10-D1	ED-301911	D SILICON H DS448 [U,Y1]
10-D2	ED-301911	D SILICON H DS448 [L]
10-D3	ED-301911	D SILICON H DS448 [Y1]
10-D4 to 7	ED-301911	D SILICON HDS448
10-D8	ED-344280	D SILICON H GMA-01-FY2 F05
10-D10	ED-301911	D SILICON H DS448
10-D11	ED-344280	D SILICON H GMA-01-FY2 F05
10-D12 to 14	ED-301911	D SILICON H DS448
10-D15	ED-321269	D LED GL5PR6 RED
10-SW1 to 10	ES-349367	SW TACT SKHHAB044A
10-X1	EI-348409	OSC CE CSB400P 0.4MHz
10-IB1	EH-359049	COMP R TNC15A104J
10-IN1	EM-353670	IND FL 8-BT-29ZK CHARACTER
10-BT1	EZ-358816	BATTERY LITHIUM BR2032-1HF

11. FUNCTION LED PC BOARD

REF. NO.	PART NO.	DESCRIPTION
11-TR1 to 4	ET-353898	TR 2SC3330
11-D1 to 4	ED-337391	D LED GL5NG6 GREEN

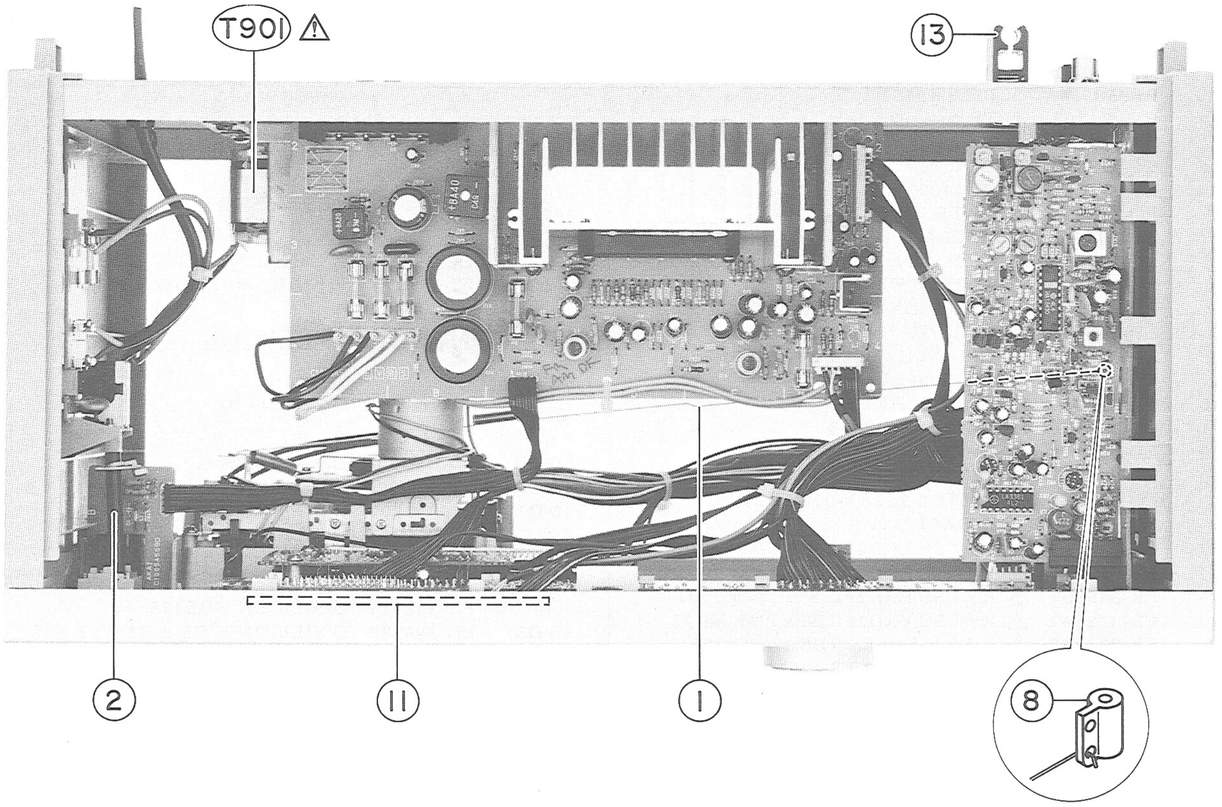
12. LED PC BOARD

REF. NO.	PART NO.	DESCRIPTION
12-D1	ED-337391	D LED GL5NG6 GREEN
12-D2	ED-321269	D LED GL5PR6 RED

13. POWER SUPPLY PC BOARD

REF. NO.	PART NO.	DESCRIPTION
13-SW1	ES-337902	⚠ SW PUSH SDLD1P002 01-1
13-L1	EO-338409	COIL LF FK0B160MH02 250UH [V]
13-R1	ER-356573	⚠ R SD ANTI-STATIC 1/2W 225K [C,A]
13-C1A	EC-320548	⚠ C CE V F 103Z 250AC [V]
13-C1B	EC-338411	⚠ C CE V FZ 103P 400AC [C,A]
13-C1C	EC-338496	⚠ C CE V FZ 472P 400AC [E,V,B]
13-F1A	EF-311839	⚠ FUSE TSC A 250V 1.60A [U,Y1]
13-F1B	EF-323080	⚠ FUSE TSC 125V 3.15A [C,A]
13-F1C	EF-602550	⚠ FUSE SEMKO T 1.25A 250V [E,V,S, L(E)]
13-F1D	EF-359007	⚠ FUSE BET T 1.25A 250V [L(B)]
13-F2	EF-311839	⚠ FUSE TSC A 250V 1.60A [U,Y1]

ASSEMBLY BLOCK



T901 ⚠
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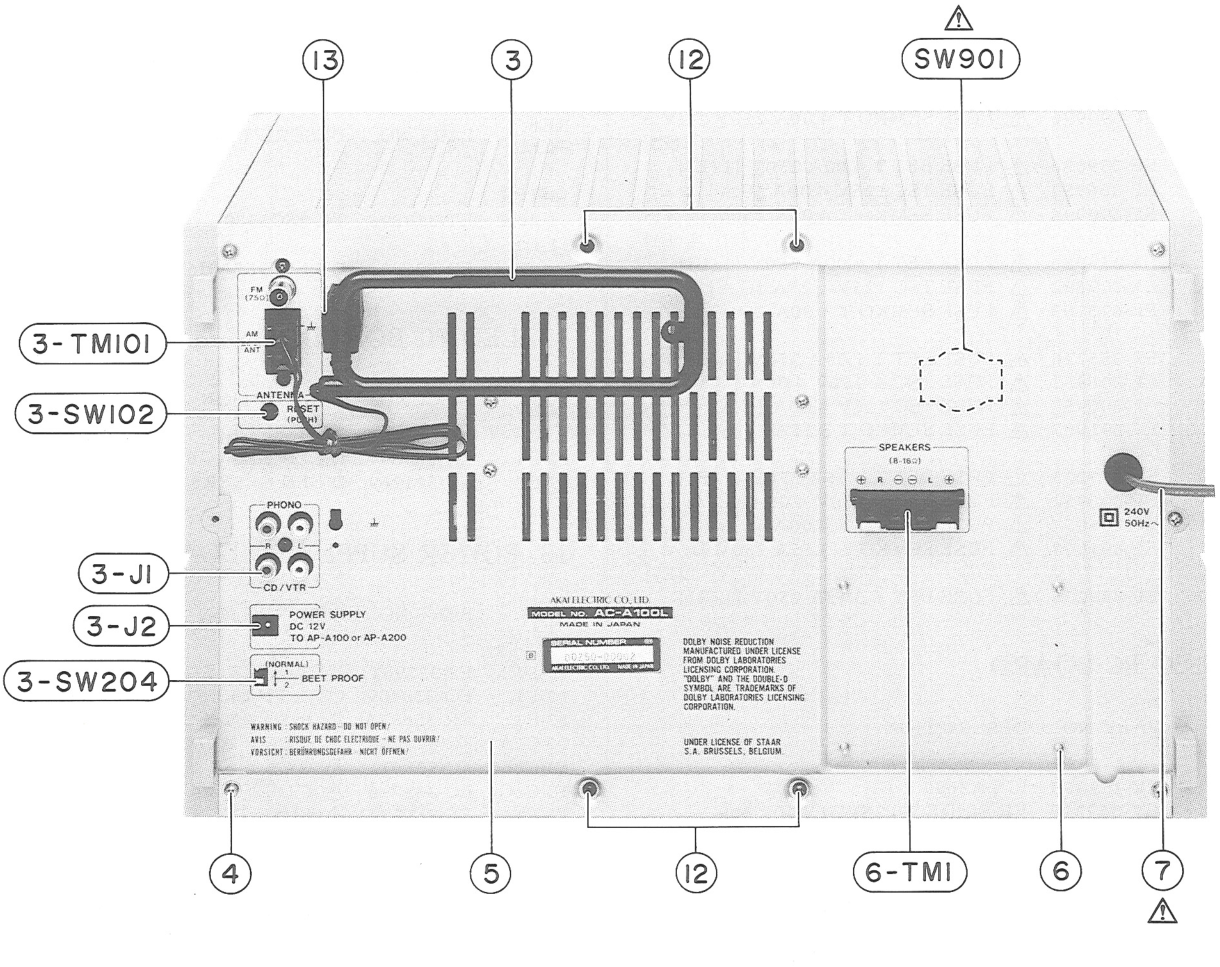
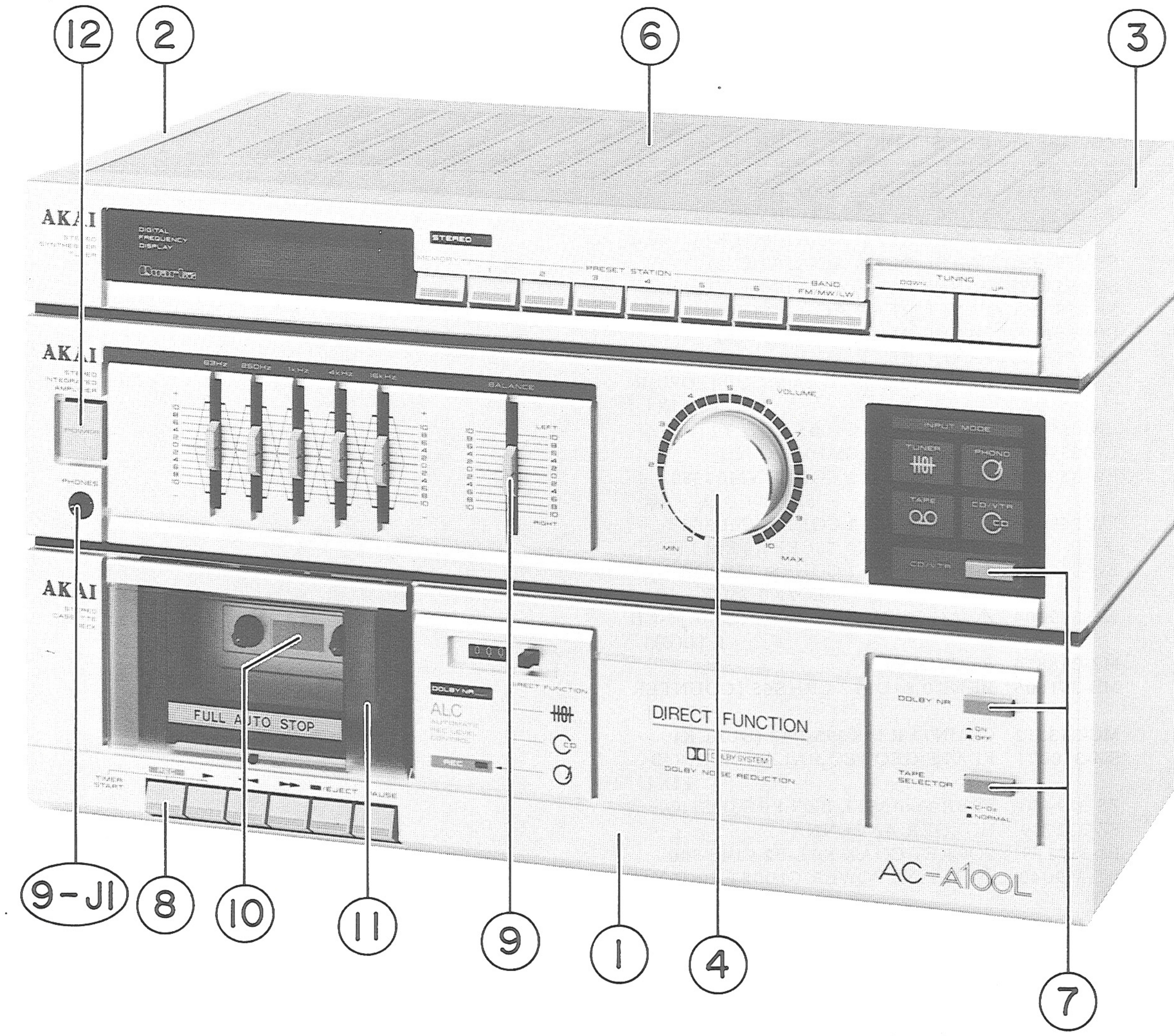


⚠
SW901
13
3
12
3-TM101
3-SW102
3-J1
3-J2
3-SW204
FM (75Ω)
AM ANT
ANTENNA
RESET (PUSH)
PHONO
R L
CD/VTR
POWER SUPPLY DC 12V TO AP-A100 or AP-A200
(NORMAL) 1 2 BEET PROOF
SPEAKERS (8-16Ω)
⊕ R ⊖ ⊖ L ⊕
240V 50Hz~
AKAI ELECTRIC CO., LTD.
MODEL NO. AC-A100L
MADE IN JAPAN
SERIAL NUMBER
DOLBY NOISE REDUCTION MANUFACTURED UNDER LICENSE FROM DOLBY LABORATORIES LICENSING CORPORATION. "DOLBY" AND THE DOUBLE-D SYMBOL ARE TRADEMARKS OF DOLBY LABORATORIES LICENSING CORPORATION.
UNDER LICENSE OF STAAR S.A. BRUSSELS, BELGIUM.
WARNING : SHOCK HAZARD-DO NOT OPEN!
AVIS : RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR!
VORSICHT : BERÜHRUNGSGEFAHR · NICHT ÖFFNEN!
4
5
12
6-TM1
6
7
⚠

14. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
	ASSEMBLY BLOCK	
14-1	ZG-358866	REC SPRING
14-2	MZ-358868	JOINT POWER
14-3	EE-359265	ANT LOOP LA-200A-A
14-4	ZS-397878	T2BR30x10STL CMT PW080
14-5A	SP-355139A	PANEL REAR AC-A100(U,Y1)
14-5B	SP-355139D	PANEL REAR AC-A100(C,A)
14-5C	SP-355139B	PANEL REAR AC-A100(E,V)
14-5D	SP-355139C	PANEL REAR AC-A100(S)
14-5E	SP-355139E	PANEL REAR AC-A100L(E)
14-5F	SP-355139F	PANEL REAR AC-A100L(B)
14-6	ZS-346742	ST BID40x08STL CMT CUP [POWER TRANS FIX]
14-7A	EW-359076	⚠ AC CORD C1005 U [U,Y1]
14-7B	EW-359077	⚠ AC CORD CD1005 C [C]
14-7C	EW-359078	⚠ AC CORD 2 CORES VM02380 SPT-1-CB UC [A]
14-7D	EW-359079	⚠ AC CORD 2 CORES VM0364 LC2X0.75CBEV [E,V,L(E)]
14-7E	EW-359081	⚠ AC CORD 2 COERS VM0436 LC2X0.75CB S [S]
14-7F	EW-359204	⚠ AC CORD 2 CORES LC2X0.75-CB B [L(B)]
14-8	MZ-358870	REC JOINT
14-9x	MB-351605	BELT 0.8xD593 CRHS65 [COUNTER BELT]
14-10x	MC-353312	COUNTER MK395-043 (BLACK)
14-11	SM-358871	PLATE GEQ [EQ,BALANCE KNOB FIX]
14-12	ZS-319460	T2BR30x06STL BZN PROJECTION
14-13	SZ-332739	HOLDER ANTENNA
14-14x	EJ-352118	SOCKET COAX PAL B2-714P-900
14-T901A	BT-359040	⚠ TRANS POWER C1005T-70(U,Y1) [U,Y1]
14-T901B	BT-359041	⚠ TRANS POWER C1005T-30(C) [C]
14-T901C	BT-359042	⚠ TRANS POWER C1005T-20(A) [A]
14-T901D	BT-359045	⚠ TRANS POWER C1005T-40(E,V) [E,V,L(E)]
14-T901E	BT-359046	⚠ TRANS POWER C1005T-50(S,B) [S,L(B)]
14-SW901	ES-349070	⚠ SW SELECTOR YKS11-0002 02-4 [U,Y1]
	BASE PC BOARD	
3-SW102	ES-344445	SW TACT EVQ-QHR12B
3-SW204	ES-360114	SW SLIDE 00220658 02-02S
3-J1	EJ-336905	PIN J AJC-035-ACB P 4P
3-J2	EJ-359067	SOCKET INLET HEC0470-01-640
3-TM101	EJ-359031	TERMINAL LEVER YK-D31-0215 P 2P
	MAIN AMP PC BOARD	
6-TM1	EJ-359264	TERMINAL LEVER YKD21-0023A P 4P

FINAL ASSEMBLY BLOCK



12
2
6
3
AKAI
DIGITAL FREQUENCY DISPLAY
STEREO
PRESET STATION
BAND FM/MW/LW
TUNING
DOWN
UP
AKAI
POWER
PHONES
63Hz
250Hz
1kHz
4kHz
16kHz
BALANCE
LEFT
RIGHT
VOLUME
MIN
MAX
INPUT MODE
TUNER
PHONO
TAPE
CD/VTR
AKAI
FULL AUTO STOP
DOLBY NR
ALC
DIRECT FUNCTION
REC
DIRECT FUNCTION
DOLBY SYSTEM
DOLBY NOISE REDUCTION
DOLBY NR
ON
OFF
TAPE SELECTOR
CrO2
NORMAL
TIMER START
EJECT
PAUSE
AC-A100L
9-J1
8
10
11
9
1
4
7

15. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
	FINAL ASSEMBLY BLOCK	
15-1A	BD-C1005A050A	PANEL FRONT BLK AC-A100
15-1B	BD-C1005A050C	PANEL FRONT BLK AC-A100L
15-1C	BD-C1005A050B	PANEL FRONT BLK AC-A100-B
15-1D	BD-C1005A050D	PANEL FRONT BLK AC-A100L-B
15-2	BD-358888A	PANEL SIDE(L)
15-2B	BD-358888B	PANEL SIDE(L)-B
15-3	BD-358887A	PANEL SIDE(R)
15-3B	BD-358887B	PANEL SIDE(R)-B
15-4	SK-B358605X1	KNOB VR PART
15-4B	SK-B358605X3	KNOB VR-B PART
15-5x	BC-355140A	COVER (A) [BUTTOM COVER]
15-6	BC-355140B	COVER (2)
15-6B	BC-355140C	COVER(2)-B
15-7	SB-358882	BUTTON PUSH
15-8	SK-358886A	BUTTON OPERATION
15-9	SK-358879	KNOB SLIDE
15-10	SZ-645186	REFLECTOR
15-11	BD-358884A	LID CASE
15-11B	BD-358884B	LID CASE-B
15-12	SK-343017C	KNOB POWER (2)
15-12B	SK-343017F	KNOB POWER-B
	HEAD PHONE PC BOARD	
9-J1	EJ-359075	PHONE J HLJ4308-01-3040

SYMBOL FOR COLOR VARIATION

NON : STANDARD COLOR

B or BL : BLACK

INDEX

MODEL AP-A100/C

PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.
AX-332567C	2-35	EV-315416	1-VR1	SA-332577C	2-25	TP-336361	2-28	ZG-325402	2-6
AX-332567D	2-35B	EW-358749	2-32A	SK-345362A	2-8	TP-336362	2-28B	ZG-332548	2-17
BC-B332582	2-26	EW-358750	2-32B	SK-345362E	2-8B	TP-345341	2-7	ZG-353257	2-4
BC-358036A	2-1	EW-358754	2-33	SK-351613B	2-34	TP-348266A	2-30A	ZS-350767	2-16
BC-358036B	2-1B	MB-345351B	2-15	SK-351739	2-12	TP-348266B	2-30B	ZS-358930	2-9
BM-354988	2-M901	MB-355119	2-31	TP-B332568X2	2-18	TP-348321	2-29	ZW-270101	2-23
EI-357879	1-IC1	ML-345348	2-21	TP-B345367	2-19	TP-351625	2-3	ZW-340648	2-5
ES-316432	2-SW901	ML-358006	2-13	TP-P1034A040A	2-10	TP-358836	2-2		
ES-358768	1-SW1	MV-269965	2-20	TP-P1034A080A	2-22	ZG-313073	2-24		
EV-315416	1-VR2	MZ-358034	2-14	TP-301300	2-27	ZG-313181	2-11		

MODEL AP-A200/C

PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.
AX-332567C	4-30xA	ET-328844	1-Q1	SP-359109	4-35	ZS-310984	4-12		
AX-332567D	4-30xB	ET-328844	1-Q2	TP-B332568X2	4-21	ZS-332009	4-36		
BC-B353247	4-37	ET-330225	1-Q10	TP-B358014	4-39	ZS-349118	4-19		
BC-353231F	4-1B	ET-330225	1-Q7	TP-P1034A080A	4-25	ZS-358930	4-10		
BD-P1047A020A	4-31	ET-330225	1-Q8	TP-P1037A040A	4-9	ZW-290283	4-26		
BD-P1047A020B	4-31B	ET-742510	1-Q11	TP-348266A	4-40B	ZW-325521	4-8		
BD-353231D	4-1	ET-742510	1-Q4	TP-348266B	4-40A	ZW-331536	4-14		
BM-360085	4-M901	ET-742510	1-Q3	TP-353252	4-7	ZW-340648	4-6		
ED-337391	3-D1	EV-780138	1-VR1	TP-353712	4-18	ZW-340648	4-11		
ED-349656	3-D2	EW-358749	4-42B	TP-358003	4-16	ZW-382083	4-15		
ED-557447	2-D1	EW-358750	4-42A	TP-358012A	4-29				
ED-557447	2-D2	EW-358754	4-41	TP-358012B	4-29B				
ED-708712	1-D1	MB-343057	4-38	TP-358836	4-2				
EI-780137	1-IC1	ML-345348	4-24	TP-360072	4-22				
ER-353877	1-R1	ML-358006	4-17	ZG-313073	4-27				
ES-325488	4-SW901	MS-353238	4-4	ZG-332548	4-20				
ES-337843	2-SW1	MV-269965	4-23	ZG-353257	4-5				
ET-308867	1-Q5	SA-332577	4-28	ZG-358000	4-13				
ET-308867	1-Q9	SK-358010A	4-32	ZG-358951	4-3				
ET-308867	1-Q6	SK-358011A	4-33	ZG-358952	4-34				

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MODEL AC-A100/L

PART NO.	REF. NO.
BA-C1005A020A	2-1A
BA-C1005A020B	2-1B
BA-C1005A020C	2-1C
BA-C1005A020D	2-1D
BA-C1005A020E	2-1E
BA-C1005A020F	2-1F
BA-C1005A020G	2-1G
BA-C1005A040A	2-3A
BA-C1005A040B	2-3B
BA-C1005A040C	2-3C
BA-C1005A040D	2-3D
BA-C1005A040E	2-3E
BA-C1005A040F	2-3F
BA-C1005A060A	2-5A
BA-C1005A060B	2-5B
BA-C1005A060C	2-5C
BA-C1005A060D	2-5D
BA-C1005A060E	2-5E
BA-C1005A060F	2-5F
BA-C1005A070A	2-6A
BA-C1005A070B	2-6B
BA-C1005A080A	2-4A
BA-C1005A080B	2-4B
BA-C1005A080C	2-4C
BA-C1005A080D	2-4D
BA-C1005A080E	2-4E
BA-F0141A010A	2-2A
BA-F0141A010B	2-2B
BA-F0141A010C	2-2C
BB-359082	1-1
BC-355140A	15-5x
BC-355140B	15-6
BC-355140C	15-6B
BD-C1005A050A	15-1A
BD-C1005A050B	15-1C
BD-C1005A050C	15-1B
BD-C1005A050D	15-1D
BD-358884A	15-11
BD-358884B	15-11B
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BD-358887B	15-3B
BD-358888A	15-2
BD-358888B	15-2B
BF-712807	1-37
BL-712799	1-28
BM-712825	1-M901
BR-715918	1-29
BR-715919	1-30
BT-359040	14-T901A
BT-359041	14-T901B
BT-359042	14-T901C
BT-359045	14-T901D
BT-359046	14-T901E
EC-306445	3-C232
EC-320548	13-C1A
EC-323846	6-C17
EC-326138	3-C237
EC-326583	6-C24
EC-338411	13-C1B
EC-338496	13-C1C
EC-344483	5-C40
EC-346879	5-C7
EC-347263	3-C238
EC-347591	3-C104
EC-353044	5-C6B
EC-356597	5-C6A
EC-356598	5-C51
EC-356598	5-C52
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EC-359065	5-VC2
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ED-321269	10-D15
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ED-329056	6-D1
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ED-357754	3-D1
ED-357754	3-D5
EE-359265	14-3
EF-306952	6-F6A
EF-306952	6-F7A
EF-306957	6-F3A
EF-306957	6-F4A
EF-306957	6-F6B
EF-306957	6-F7B
EF-309392	6-F5A
EF-311839	13-F1A
EF-311839	13-F2
EF-323080	13-F1B
EF-355226	6-F5C
EF-359007	13-F1D
EF-359086	6-F3C
EF-359086	6-F4C
EF-359225	6-F6D
EF-359225	6-F7D
EF-602550	13-F1C
EF-623103	6-F5B
EF-690996	6-F3B
EF-690996	6-F4B
EF-691007	6-F6C
EF-691007	6-F7C
EH-336804	5-FL2
EH-351182	3-FL201
EH-355382	5-FL3
EH-355568	3-FL101
EH-355568	5-FL1
EH-359049	10-IB1
EI-332259	3-IC2
EI-344422	3-X101
EI-344764	3-IC1
EI-348409	10-X1
EI-349591	3-IC201
EI-349719	3-IC3
EI-354951	3-IC101
EI-358554	6-IC1
EI-359048	10-IC1
EI-359053	7-IC1
EI-359060	5-IC1
EI-359061	5-IC2
EJ-336905	3-J1
EJ-352118	14-14x
EJ-359031	3-TM101
EJ-359067	3-J2
EJ-359075	9-J1
EJ-359264	6-TM1
EM-353670	10-IN1
EO-336829	5-T3
EO-336934	3-L2
EO-337523	5-L1
EO-337523	5-L2
EO-337598	5-T1
EO-337599	5-T2
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EO-337880	6-L1
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EO-349462	4-L4
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ER-318647	6-FR4
ER-319455	6-FR1
ER-319455	6-FR2
ER-322591	6-R17
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ER-325269	6-R6
ER-327710	3-R107
ER-328067	3-R22
ER-328067	5-R44
ER-328082	3-R23
ER-328082	6-R13
ER-345507	3-FR1
ER-345507	6-FR3
ER-356573	13-R1
ER-359266	6-R9
ER-359266	6-R10
ER-359268	9-R1
ER-359269	6-R16
ER-360146	3-R119
ER-360146	5-R27
ES-337902	13-SW1
ES-344445	3-SW102
ES-349056	4-L6
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ES-349367	10-SW3
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ES-359071	3-SW202
ES-360114	3-SW204
ES-360115	3-SW101
ES-713179	1-SW902
ES-716377	1-SW901
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ET-308977	3-TR209
ET-310148	3-TR211
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ET-328265	4-TR3
ET-328265	5-TR9
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ET-337759	3-TR102
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ET-344275	3-TR201
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ET-349459	3-TR3
ET-349459	6-TR2
ET-349718	3-TR2
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ET-353898	11-TR4
ET-353899	5-TR5
ET-353899	5-TR6
ET-353899	6-TR3
ET-353899	10-TR1
ET-355216	3-TR1
ET-360137	3-TR212
EV-356577	5-VR1
EV-356579	5-VR2
EV-359051	8-VR1
EV-359083	7-VR6
EV-359093	3-VR201
EV-359093	3-VR202
EV-359093	3-VR203
EV-359219	7-VR1
EV-359219	7-VR2
EV-359219	7-VR3
EV-359219	7-VR4
EV-359219	7-VR5
EW-359076	14-7A
EW-359077	14-7B
EW-359078	14-7C
EW-359079	14-7D
EW-359081	14-7E
EW-359204	14-7F
EZ-358816	10-BT1
HE-337047	1-H902
HP-712824	1-H901
HZ-716172	1-27
MB-351605	14-9x
MB-712818	1-57
MB-712819	1-58
MB-712820	1-59
MC-353312	14-10x
MI-711710	1-35
MI-712804	1-33
MI-712812	1-46
MI-712813	1-47
MI-712814	1-48
MI-712817	1-56
MI-715920	1-49
MI-715935	1-32
ML-712806	1-36
ML-712809	1-40
ML-716175	1-38
ML-716179	1-50
ML-716180	1-51
ML-716375	1-24
MV-716186	1-60
MZ-358868	14-2
MZ-358870	14-8
MZ-712808	1-39
MZ-716171	1-26
MZ-749256	1-34
SB-358882	15-7
SB-716178	1-41
SK-B358605X1	15-4
SK-B358605X3	15-4B
SK-343017C	15-12
SK-358879	15-9
SK-358886A	15-8
SM-358871	14-11
SP-355139A	14-5A
SP-355139B	14-5C
SP-355139C	14-5D
SP-355139D	14-5B
SP-355139E	14-5E
SP-355139F	14-5F
SZ-332739	14-13
SZ-645186	15-10
TC-712810	1-43
TC-712811	1-44
TC-712823	1-85
ZG-558866	14-1
ZG-712816	1-53
ZG-712822	1-79
ZG-715921	1-73
ZG-715922	1-128
ZG-715940	1-75
ZG-716187	1-67
ZG-716188	1-68
ZG-716189	1-69
ZG-716190	1-70
ZG-716193	1-78
ZG-716194	1-80
ZG-716197	1-82
ZG-716355	1-81
ZG-749268	1-72
ZS-319460	14-12
ZS-346742	14-6
ZS-497878	14-4
ZS-536488	1-112
ZS-749292	1-113
ZS-749293	1-114
ZW-716181	1-52

AKAI

PRO-A100/A100D

MODEL AP-A100/C, AP-A200/C, AC-A100/L

SCHEMATIC DIAGRAM AND PC BOARD

TABLE OF CONTENTS

1. AT-A100/C SCHEMATIC DIAGRAM, AP-A200 SCHEMATIC DIAGRAM, HALL D·D MOTOR, JUNCTION PCB, LED PCB, MOTOR PCB, SPEED SELECTOR PCB 1
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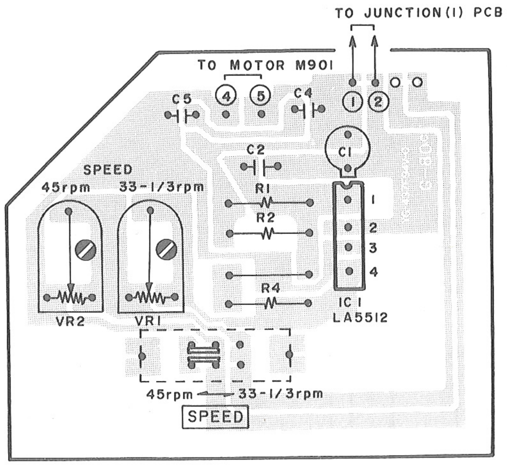
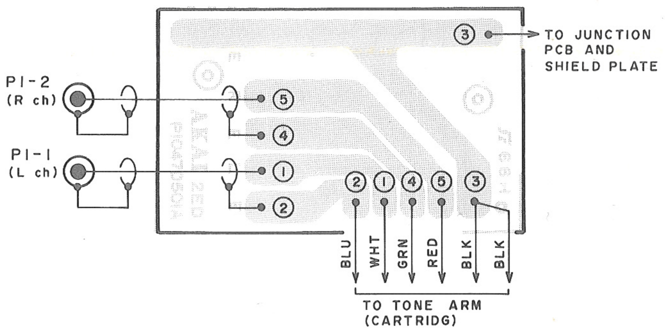
3. CONTROL PCB, FUNCTION LED PCB, G·EQ PCB, HEAD PHONE PCB, MAIN AMP PCB, POWER SUPPLY PCB, VOLUME PCB 3
4. AC-A100/L BASE SCHEMATIC DIAGRAM 4
5. BASE PCB, FRONT END PCB 5
6. AC-A100 IF-SCHEMATIC DIAGRAM 6
7. IF-A PCB 7
8. AC-A100L IF-B SCHEMATIC DIAGRAM 8
9. IF-B PCB 9
10. BLOCK DIAGRAM OF IC'S 10

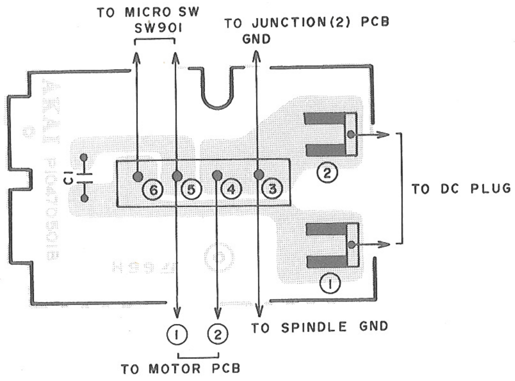

TO JUNCTION(1) PCB
TO MOTOR M901
C5
④ ⑤
C4
① ②
C1
C2
SPEED
45rpm
33-1/3rpm
R1
R2
R4
1
2
3
4
IC1
LA5512
VR2
VR1
45rpm ← → 33-1/3rpm
SPEED

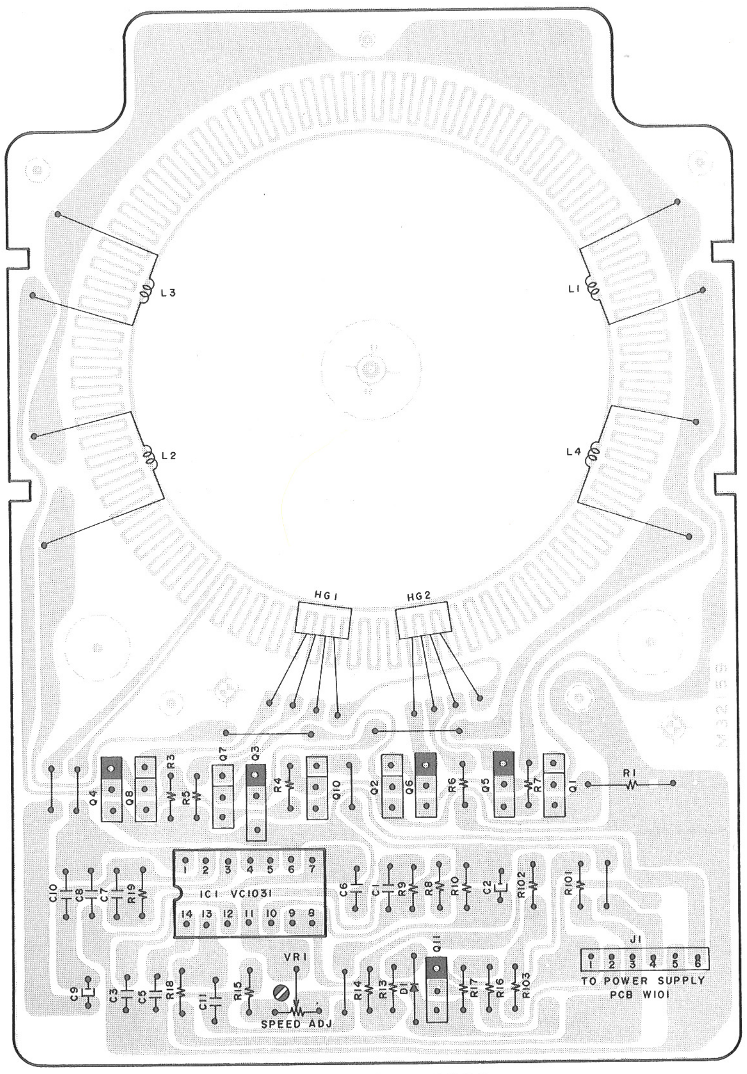
MOTOR PCB

JUNCTION(2) PCB
P1047D501A

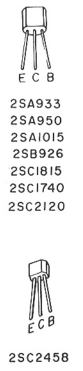

③ → TO JUNCTION PCB AND SHIELD PLATE
P1-2
(R ch)
P1-1
(L ch)
⑤
④
①
②
② ① ④ ⑤ ③
BLU
WHT
GRN
RED
BLK
BLK
TO TONE ARM
(CARTRIDG)
AKAI
P1047D501A

JUNCTION(1)
PCB
P1047D501B


TO MICRO SW
SW901
TO JUNCTION(2) PCB
GND
C1
⑥ ⑤ ④ ③
②
①
TO DC PLUG
① ②
TO SPINDLE GND
TO MOTOR PCB
AKAI


L3
L1
L2
L4
HG1
HG2
Q4
Q8
R19
R3
R5
Q7
Q3
R4
Q10
Q2
Q6
R6
Q5
R7
Q1
R1
C10
C8
C7
R19
IC1 VC1031
1 2 3 4 5 6 7
14 13 12 11 10 9 8
C6
C1
R9
R8
R10
C2
R102
R101
C9
C3
C5
R18
C11
R15
VR1
SPEED ADJ
R14
R13
D1
R12
Q11
R17
R16
R103
J1
TO POWER SUPPLY PCB W101

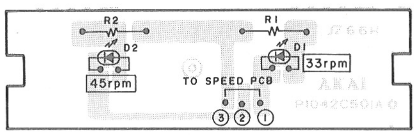
HALL D.D MOTOR M901 SS09DA


E C B
2SA933
2SA950
2SA1015
2SB926
2SC1815
2SC1740
2SC2120
E C B
2SC2458

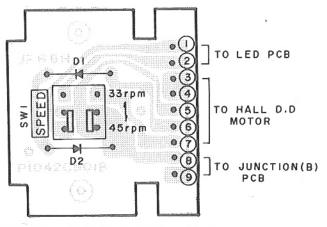
1,2 ------2SC2120(O,Y)
3,4 -----2SA950(O,Y) or 2SB926(R,S)
5,6 -----2SA1015 (Y,GR) or 2SA933(Q,R)
7,8,10 --- 2SC1815(Y,GR) or 2SC2458(Y,GR) or
or 2SC1740(Q.R)
11------ 2SA950(O,Y) or 2SA933(Q,R)

B ● ● ● = NPN TRANSISTOR

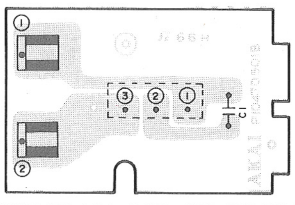
B ○ ● ● = PNP TRANSISTOR


R2
D2
45rpm
R1
D1
33rpm
TO SPEED PCB
③ ② ①
AKAI
P1042C501A

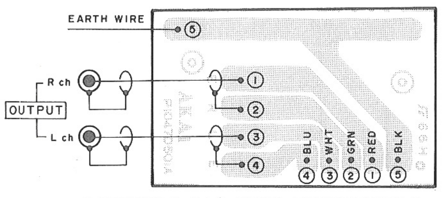
LED PCB P1042C501A


D1
SW1
SPEED
33rpm
45rpm
D2
①
②
③
④
⑤
⑥
⑦
⑧
⑨
TO LED PCB
TO HALL D.D MOTOR
TO JUNCTION(B) PCB

SPEED SELECTOR PCB
P1042C501B

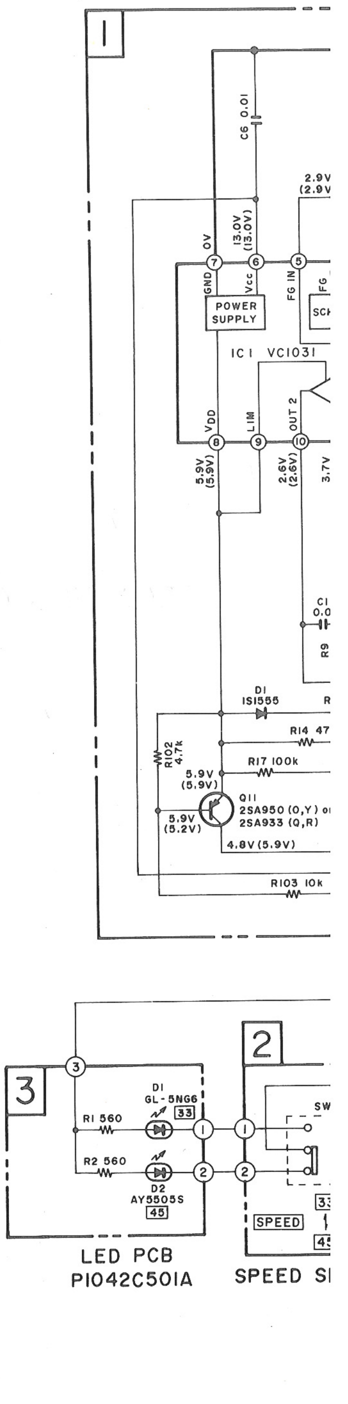

①
②
③ ② ①
C1
AKAI

JUNCTION (B) PCB P1047D501B

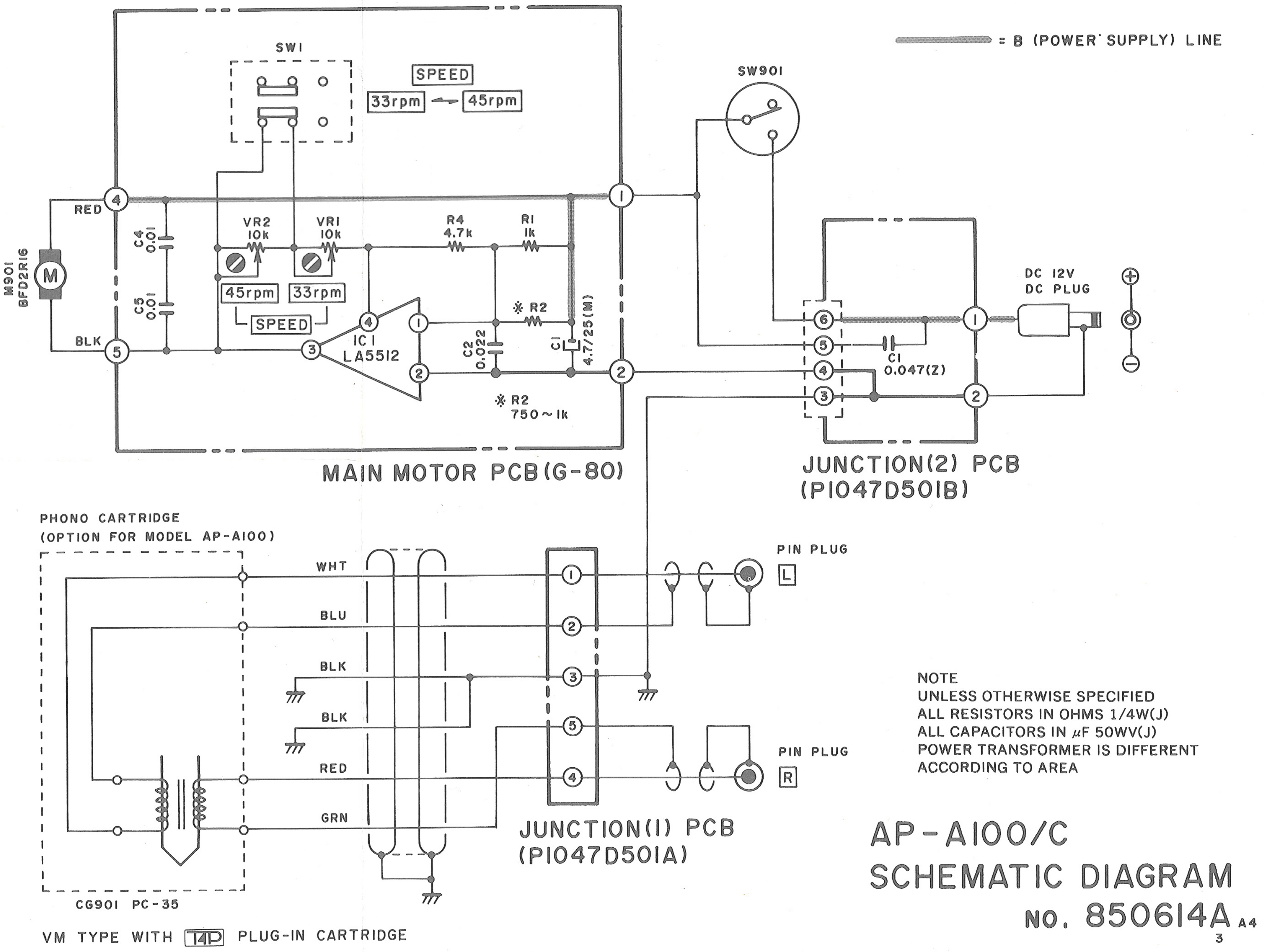

EARTH WIRE
⑤
R ch
OUTPUT
L ch
①
②
③
④
BLU
WHT
GRN
RED
BLK
④ ③ ② ① ⑤
AKAI

JUNCTION (A) PCB P1047D501A

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


1
C6 0.01
2.9V
(2.9V)
0V
13.0V
(13.0V)
GND
Vcc
FG IN
POWER SUPPLY
IC1 VC1031
VDD
LIM
OUT 2
5.9V
(5.9V)
2.6V
(2.6V)
3.7V
C1
R9
D1
1S1555
R14 47
R102
4.7k
R17 100k
5.9V
(5.9V)
Q11
2SA950 (O,Y) or
2SA933 (Q,R)
5.9V
(5.2V)
4.8V (5.9V)
R103 10k
3
2
D1
GL-5NG6
33
R1 560
R2 560
D2
AY5505S
45
SPEED
LED PCB
P1042C501A

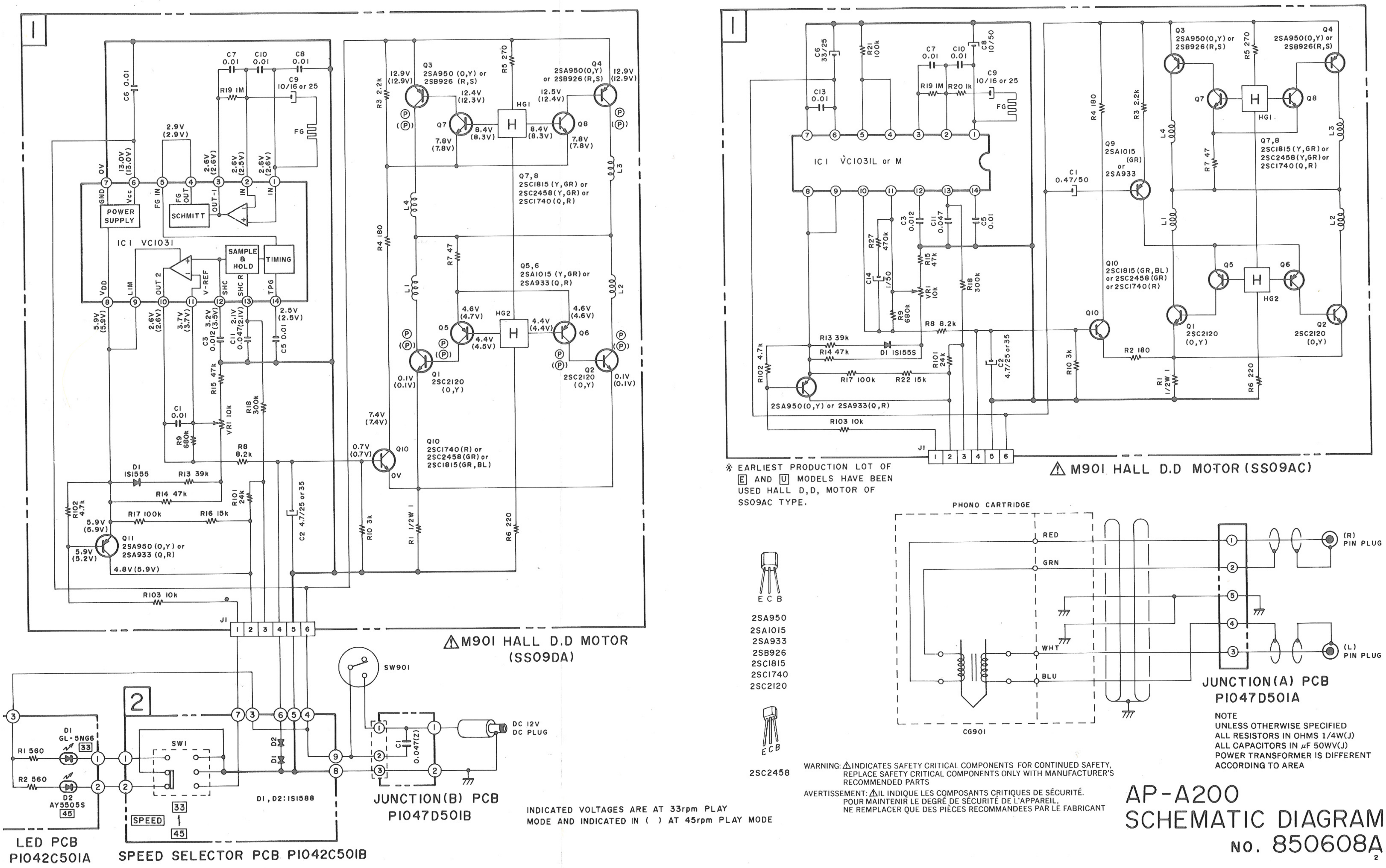
= B (POWER SUPPLY) LINE


SW1
SPEED
33rpm
45rpm
SW901
RED
BLK
M901
BFD2R16
M
C4 0.01
C5 0.01
VR2 10k
VR1 10k
R4 4.7k
R1 1k
※ R2
C2 0.022
C1 4.7/25(M)
IC1 LA5512
※ R2 750～1k
MAIN MOTOR PCB (G-80)
DC 12V
DC PLUG
C1 0.047(Z)
JUNCTION(2) PCB
(P1047D501B)
PHONO CARTRIDGE
(OPTION FOR MODEL AP-A100)
WHT
BLU
BLK
BLK
RED
GRN
PIN PLUG
L
PIN PLUG
R
JUNCTION(1) PCB
(P1047D501A)
CG901 PC-35
VM TYPE WITH T4P PLUG-IN CARTRIDGE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

AP-A100/C SCHEMATIC DIAGRAM

NO. 850614A A4 3


1
C7 0.01
C10 0.01
C8 0.01
C6 0.01
R19 1M
C9 10/16 or 25
FG
IC1 VC1031
POWER SUPPLY
SCHMITT
SAMPLE & HOLD
TIMING
Q3 2SA950(O,Y) or 2SB926(R,S)
Q4 2SA950(O,Y) or 2SB926(R,S)
HG1
HG2
Q7,8 2SC1815(Y,GR) or 2SC2458(Y,GR) or 2SC1740(Q,R)
Q5,6 2SA1015(Y,GR) or 2SA933(Q,R)
Q1 2SC2120 (O,Y)
Q2 2SC2120 (O,Y)
Q10 2SC1740(R) or 2SC2458(GR) or 2SC1815(GR,BL)
Q11 2SA950(O,Y) or 2SA933(Q,R)
D1 1S1555
R103 10k
J1
M901 HALL D.D MOTOR (SS09DA)
SW901
2
D1 GL-5NG6
D2 AY5505S
R1 560
R2 560
SW1
SPEED
33
45
D1, D2: 1S1588
DC 12V DC PLUG
JUNCTION(B) PCB P1047D501B
LED PCB P1042C501A
SPEED SELECTOR PCB P1042C501B
IC1 VC1031L or M
M901 HALL D.D MOTOR (SS09AC)
PHONO CARTRIDGE
RED
GRN
WHT
BLU
CG901
(R) PIN PLUG
(L) PIN PLUG
JUNCTION(A) PCB P1047D501A
E C B
2SA950
2SA1015
2SA933
2SB926
2SC1815
2SC1740
2SC2120
2SC2458

※ EARLIEST PRODUCTION LOT OF E AND U MODELS HAVE BEEN USED HALL D.D. MOTOR OF SS09AC TYPE.

INDICATED VOLTAGES ARE AT 33rpm PLAY MODE AND INDICATED IN ( ) AT 45rpm PLAY MODE

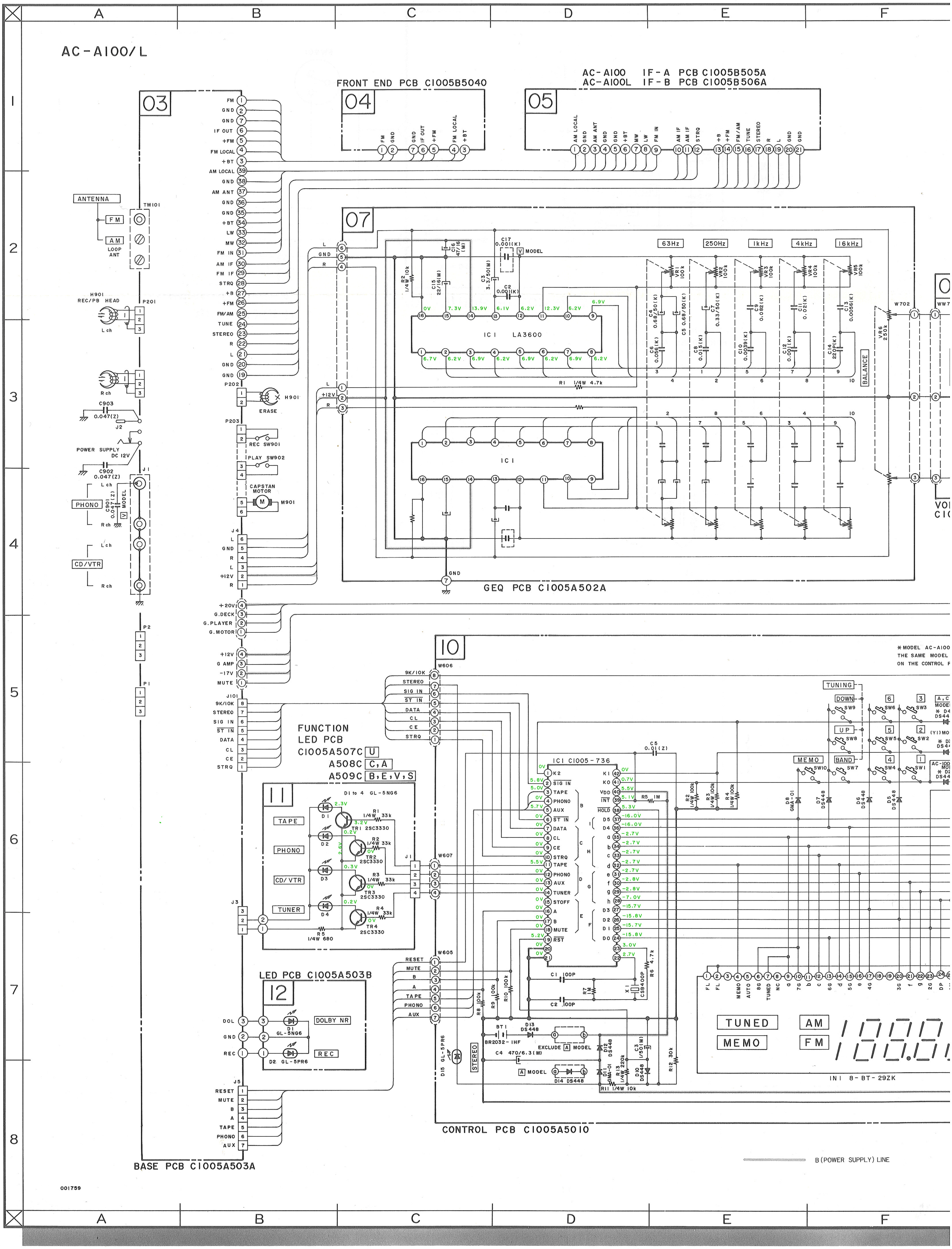
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

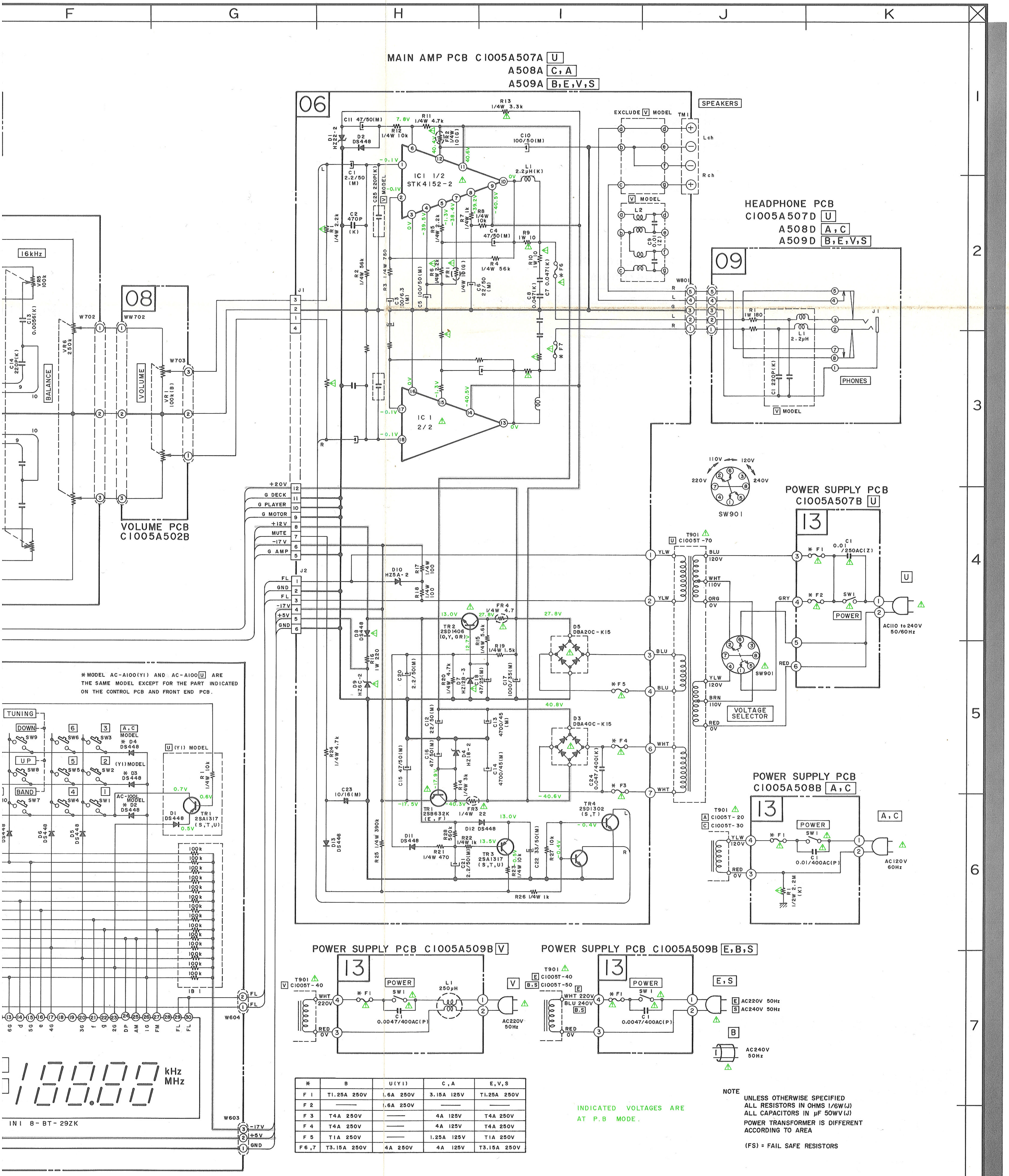
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

AP-A200 SCHEMATIC DIAGRAM

NO. 850608A A2 2


AC-A100/L
FRONT END PCB C1005B5040
AC-A100 IF-A PCB C1005B505A
AC-A100L IF-B PCB C1005B506A
03
04
05
07
10
11
12
ANTENNA
FM
AM
LOOP ANT
TM101
H901 REC/PB HEAD
Lch
Rch
P201
P202
P203
C903 0.047(Z)
J2
POWER SUPPLY DC 12V
C902 0.047(Z)
PHONO
CD/VTR
J1
H901 ERASE
REC SW901
PLAY SW902
CAPSTAN MOTOR
M901
J4
63Hz
250Hz
1kHz
4kHz
16kHz
IC1 LA3600
IC1
R1 1/4W 4.7k
BALANCE
VR6 250k
W702
GEQ PCB C1005A502A
FUNCTION LED PCB C1005A507C U
A508C C,A
A509C B,E,V,S
TAPE
PHONO
CD/VTR
TUNER
D1 to 4 GL-5NG6
TR1 2SC3330
TR2 2SC3330
TR3 2SC3330
TR4 2SC3330
R5 1/4W 680
LED PCB C1005A503B
DOLBY NR
REC
D1 GL-5NG6
D2 GL-5PR6
IC1 C1005-736
C5 0.01(Z)
X1 CSB400P
BT1 BR2032-1HF
C4 470/6.3(M)
D13 DS448
D14 DS448
EXCLUDE A MODEL
A MODEL
D15 GL-5PR6
STEREO
R11 1/4W 10k
R12 30k
CONTROL PCB C1005A5010
BASE PCB C1005A503A
TUNING
DOWN
UP
MEMO
BAND
TUNED
MEMO
AM
FM
IN1 8-BT-29ZK
*MODEL AC-A100
THE SAME MODEL
ON THE CONTROL P
B (POWER SUPPLY) LINE
001759
A
B
C
D
E
F
1
2
3
4
5
6
7
8


F
G
H
I
J
K
1
2
3
4
5
6
7
8
MAIN AMP PCB C1005A507A U
A508A C, A
A509A B,E,V,S
06
IC1 1/2 STK4152-2
IC1 2/2
SPEAKERS
EXCLUDE V MODEL
TM1
Lch
Rch
V MODEL
HEADPHONE PCB
C1005A507D U
A508D A, C
A509D B,E,V,S
09
PHONES
J1
J2
W801
08
WW702
W702
W703
VOLUME
BALANCE
16kHz
VR1 100k(B)
VR5 100k
VR6 250k
VOLUME PCB
C1005A502B
+20V
G DECK
G PLAYER
G MOTOR
+12V
MUTE
-17V
G AMP
FL
GND
-17V
+5V
SW901
110V
120V
220V
240V
POWER SUPPLY PCB
C1005A507B U
13
T901
C1005T-70
VOLTAGE SELECTOR
POWER
AC110 to 240V 50/60Hz
POWER SUPPLY PCB
C1005A508B A, C
AC120V 60Hz
TR1 2SB632K (E, F)
TR2 2SD1406 (O,Y,GR)
TR3 2SA1317 (S,T,U)
TR4 2SD1302 (S,T)
D5 DBA20C-K15
D3 DBA40C-K15
*MODEL AC-A100(Y1) AND AC-A100 U ARE THE SAME MODEL EXCEPT FOR THE PART INDICATED ON THE CONTROL PCB AND FRONT END PCB.
TUNING
DOWN
UP
BAND
U (Y1) MODEL
AC-100L MODEL
IN1 8-BT-29ZK
kHz
MHz
W604
W603
POWER SUPPLY PCB C1005A509B V
POWER SUPPLY PCB C1005A509B E,B,S
AC220V 50Hz
E AC220V 50Hz
S AC240V 50Hz
B
AC240V 50Hz
POWER SUPPLY) LINE

*	B	U(Y1)	C, A	E,V,S
F 1	T1.25A 250V	1.6A 250V	3.15A 125V	T1.25A 250V
F 2	———	1.6A 250V	———	———
F 3	T4A 250V	———	4A 125V	T4A 250V
F 4	T4A 250V	———	4A 125V	T4A 250V
F 5	T1A 250V	———	1.25A 125V	T1A 250V
F 6 ,7	T3.15A 250V	4A 250V	4A 125V	T3.15A 250V

INDICATED VOLTAGES ARE AT P.B MODE.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

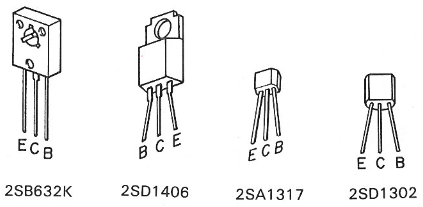
(FS) = FAIL SAFE RESISTORS

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

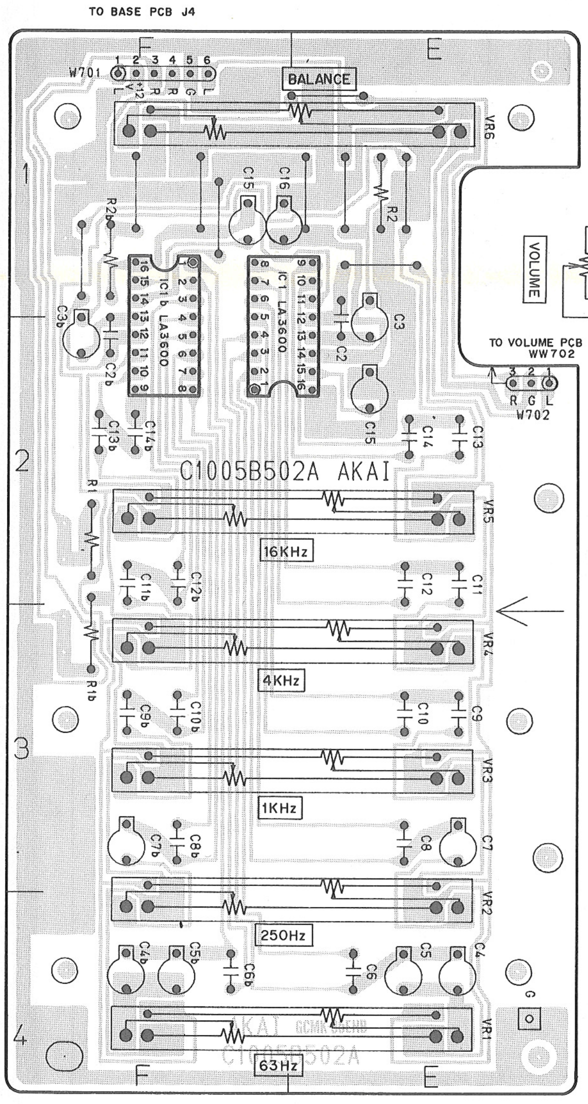
AC-A100/L
CONNECTION DIAGRAM

NO.4-1 850801A

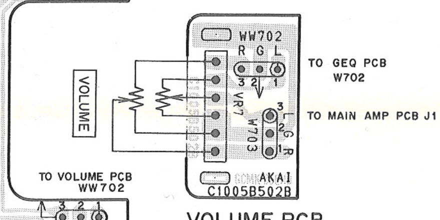

E C B
2SB632K
B C E
2SD1406
E C B
2SA1317
E C B
2SD1302

TR1	2SB632K (E, F)
TR2	2SD1406
TR3	2SA1317 (S, T, U)
TR4, TR4b	2SD1302 (S, T)

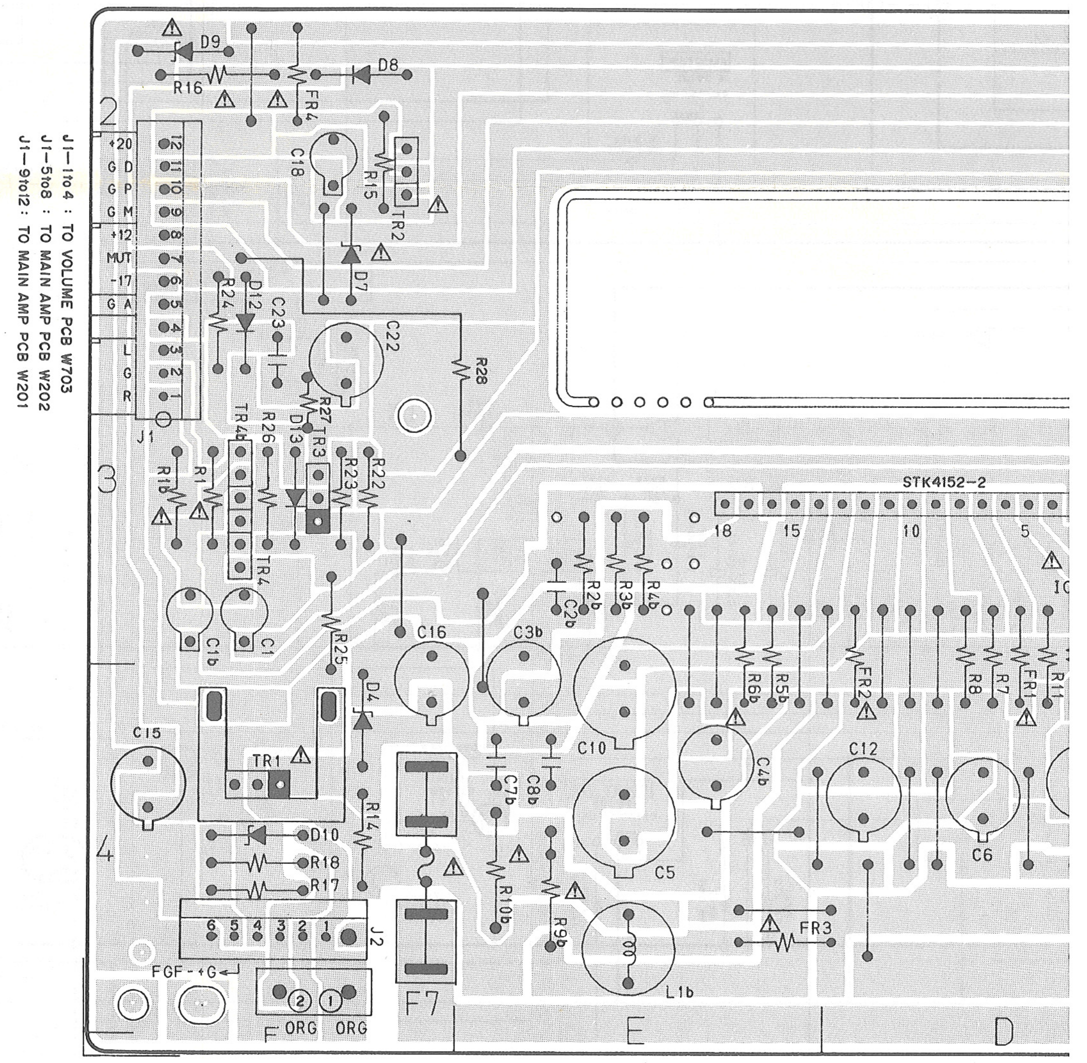
LOC
TR1.
TR2.
TR3.
TR4.
TR4b


TO BASE PCB J4
W701
BALANCE
VR6
C1005B502A AKAI
LA3600
VR5
16KHz
VR4
4KHz
VR3
1KHz
VR2
250Hz
VR1
63Hz

GEQ PCB
C1005A502A


VOLUME
WW702
R G L
VR7
W703
TO GEQ PCB W702
TO MAIN AMP PCB J1
TO VOLUME PCB WW702
W702
AKAI
C1005B502B

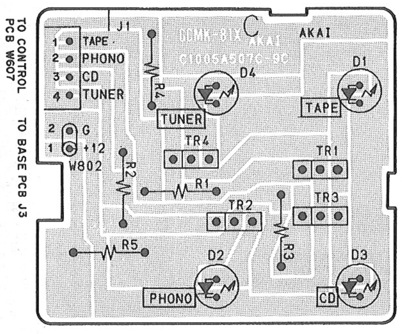
VOLUME PCB
C1005A502B


D9
R16
D8
FR4
C18
R15
TR2
D7
C23
C22
R28
J1
TR3
R26
R27
R22
R23
STK4152-2
C16
C3b
C10
C12
C15
TR1
D10
R18
R17
J2
F7
FR3
L1b
C5
C6
FGF +G
ORG ORG
E
D

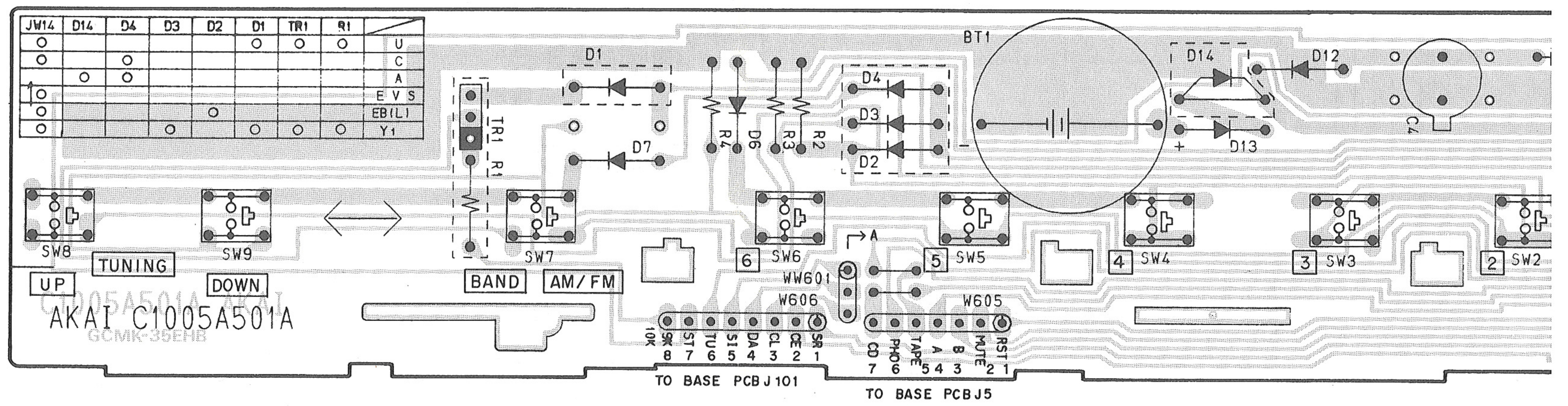
J1-1to4 : TO VOLUME PCB W703
J1-5to8 : TO MAIN AMP PCB W202
J1-9to12 : TO MAIN AMP PCB W201

J2-1to3: TO CONTROL PCB W604
J2-4to6: TO CONTROL PCB W603

MAIN

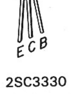

TO CONTROL PCB W607
TO BASE PCB J3
J1
TAPE
PHONO
CD
TUNER
W802
TUNER
TAPE
TR1
TR2
TR3
TR4
PHONO
CD
D1
D2
D3
D4
AKAI

FUNCTION LED PCB
C1005A507C [U]
A508C [A.C]
A509C [B.E.V.S]


JW14 D14 D4 D3 D2 D1 TR1 R1
U
C
A
E V S
EBIL1
Y1
BT1
D12
D13
D14
D1
D7
D4
D3
D2
SW8
SW9
SW7
SW6
SW5
SW4
SW3
SW2
UP
TUNING
DOWN
BAND
AM/FM
AKAI C1005A501A
W601
W606
W605
TO BASE PCB J101
TO BASE PCB J5

CONTROL
C1005A5

TR1 ~ 4 .... 2SC3330



2SC3330

....	2SB632K (E, F)
....	2SD1406
....	2SA1317 (S, T, U)
, TR4b	2SD1302 (S, T)

LOCATION OF TRANSISTOR'S

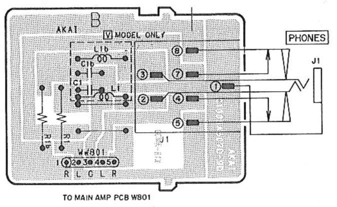
TR1	F4
TR2	F2
TR3	F3
TR4	F3
TR4b	F3

LOCATION OF IC

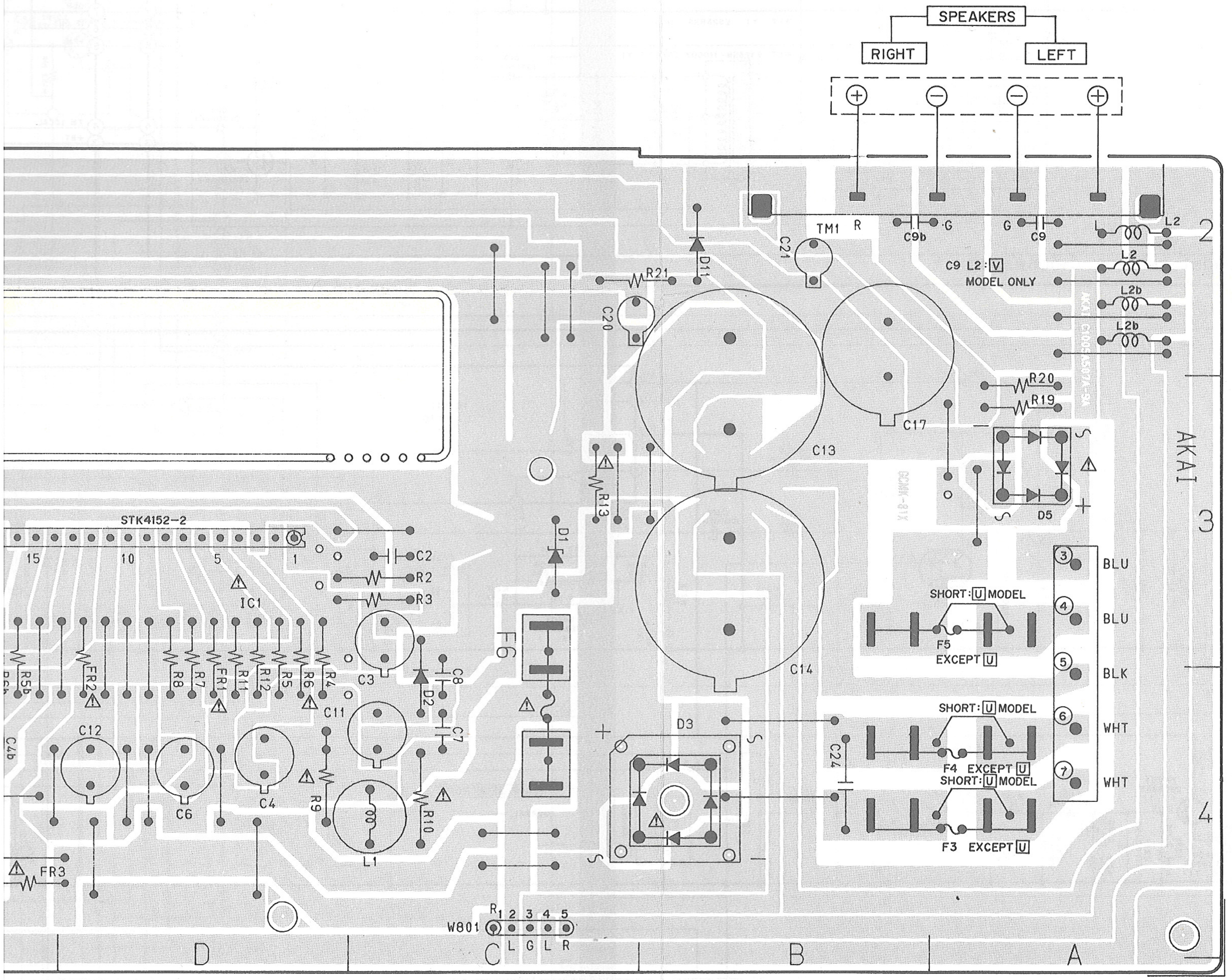
IC1	E3/D3

LOCATION OF CONNECTOR'S

J1	F2/F3
J2	F4
W801	C4

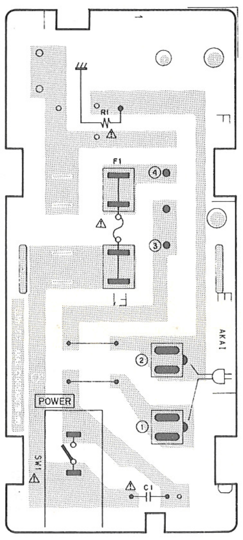

B
AKAI
V MODEL ONLY
PHONES
J1
L1b
L1
C1
R1
W801
R L G L R
TO MAIN AMP PCB W801

HEAD PHONE PCB
C1005A507D U
C1005A508D A,C
C1005A509D B,E,V,S

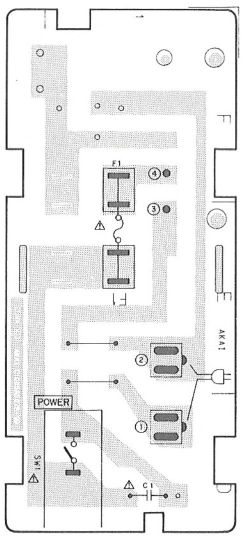

SPEAKERS
RIGHT
LEFT
TM1
R
C9b
G
G
C9
L2
C21
D11
R21
C20
C9 L2: V MODEL ONLY
L2
L2b
L2b
R20
R19
C17
C13
D5
AKAI
STK4152-2
15
10
5
1
C2
R2
R3
IC1
R13
D1
F6
C14
SHORT: U MODEL
F5
EXCEPT U
SHORT: U MODEL
F4 EXCEPT U
SHORT: U MODEL
F3 EXCEPT U
BLU
BLU
BLK
WHT
WHT
R5b
FR2
R8
R7
FR1
R11
R12
R5
R6
R4
C3
D2
C8
C11
C7
C12
C6
C4
R9
R10
L1
D3
C24
FR3
W801
1 2 3 4 5
R L G L R
D
C
B
A
2
3
4

TO HEAD PHONE PCB WW801

MAIN AMP PCB C1005A507A U
C1005A508A A,C
C1005A509A S,V,E,B

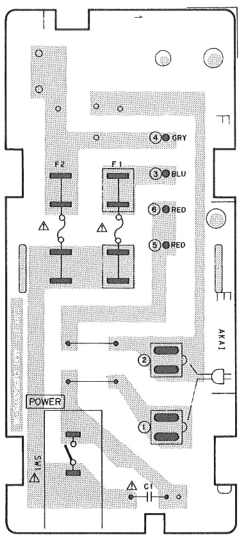

F1
POWER
SW1
C1
AKAI

POWER SUPPLY PCB
C1005A 508B A,C


F1
POWER
SW1
C1
AKAI

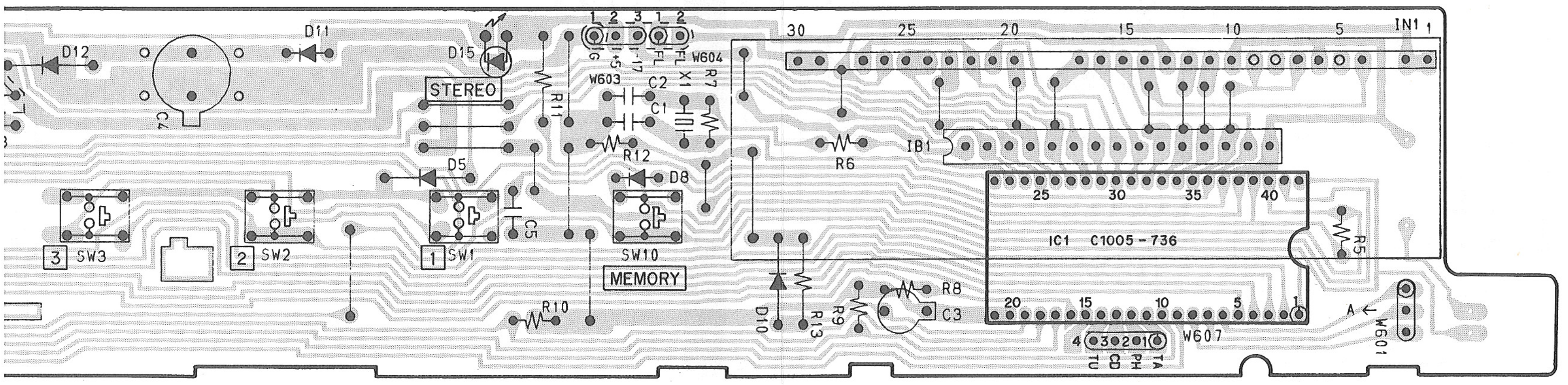
POWER SUPPLY PCB
C1005A 509B B,S,E

TO MAIN AMP PCB J2

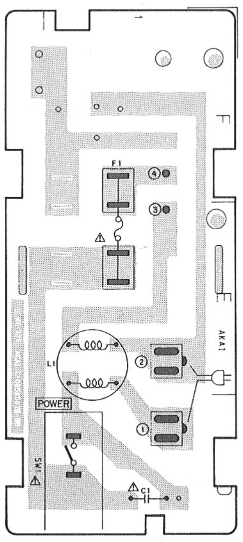

F2
F1
GRY
BLU
RED
RED
POWER
SW1
C1
AKAI

POWER SUPPLY PCB
C1005A507B U

TO MAIN AMP PCB J2


D12
D11
C4
D15
STEREO
R11
W603
C2
C1
W604
X1
R7
R12
R6
IB1
D5
D8
C5
3 SW3
2 SW2
1 SW1
SW10
MEMORY
D10
R13
R9
R8
C3
R10
IC1 C1005-736
R5
W607
W601
IN1
30
25
20
15
10
5
1

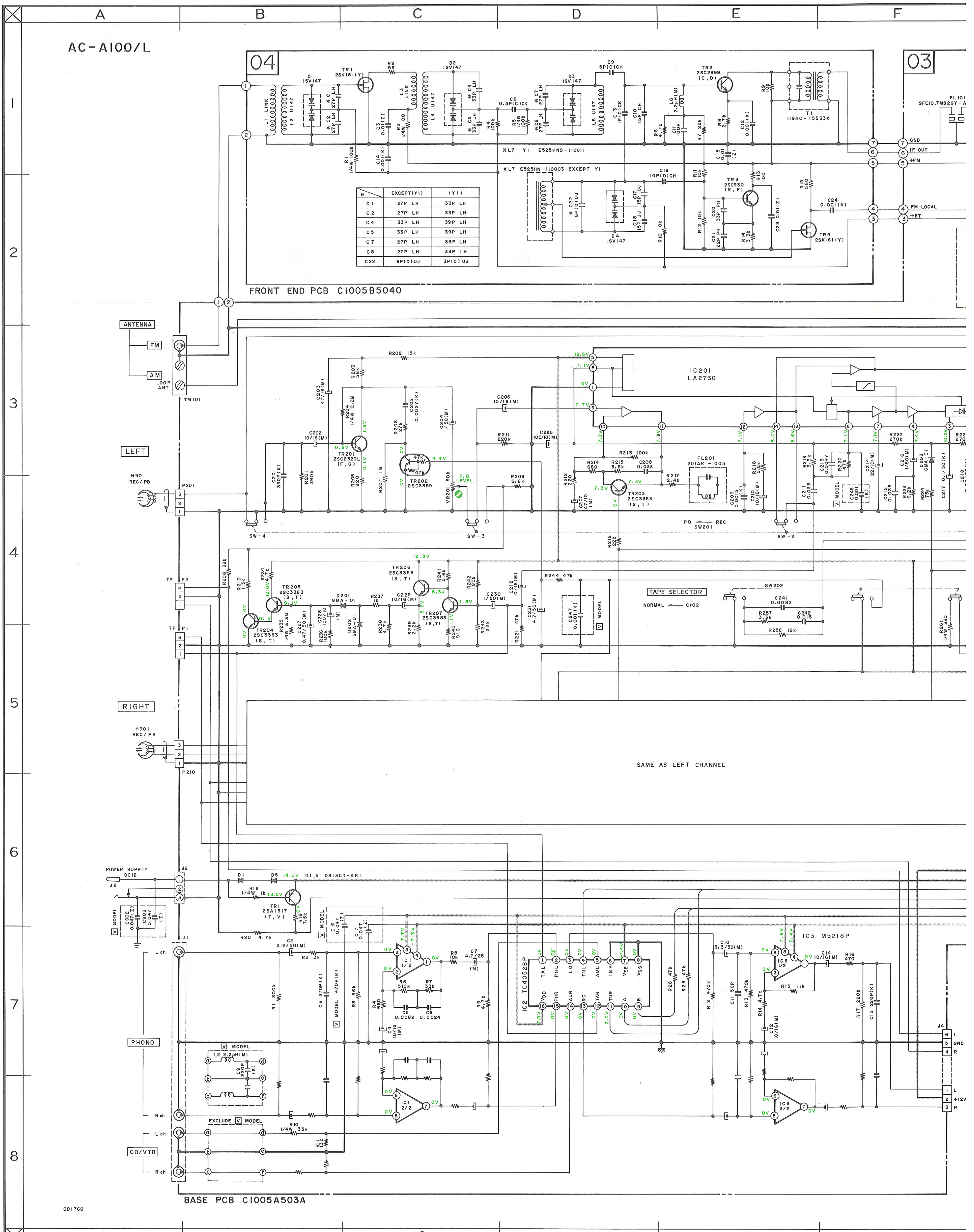
TO FUNCTION LED PCB J1


F1
L1
POWER
SW1
C1
AKAI

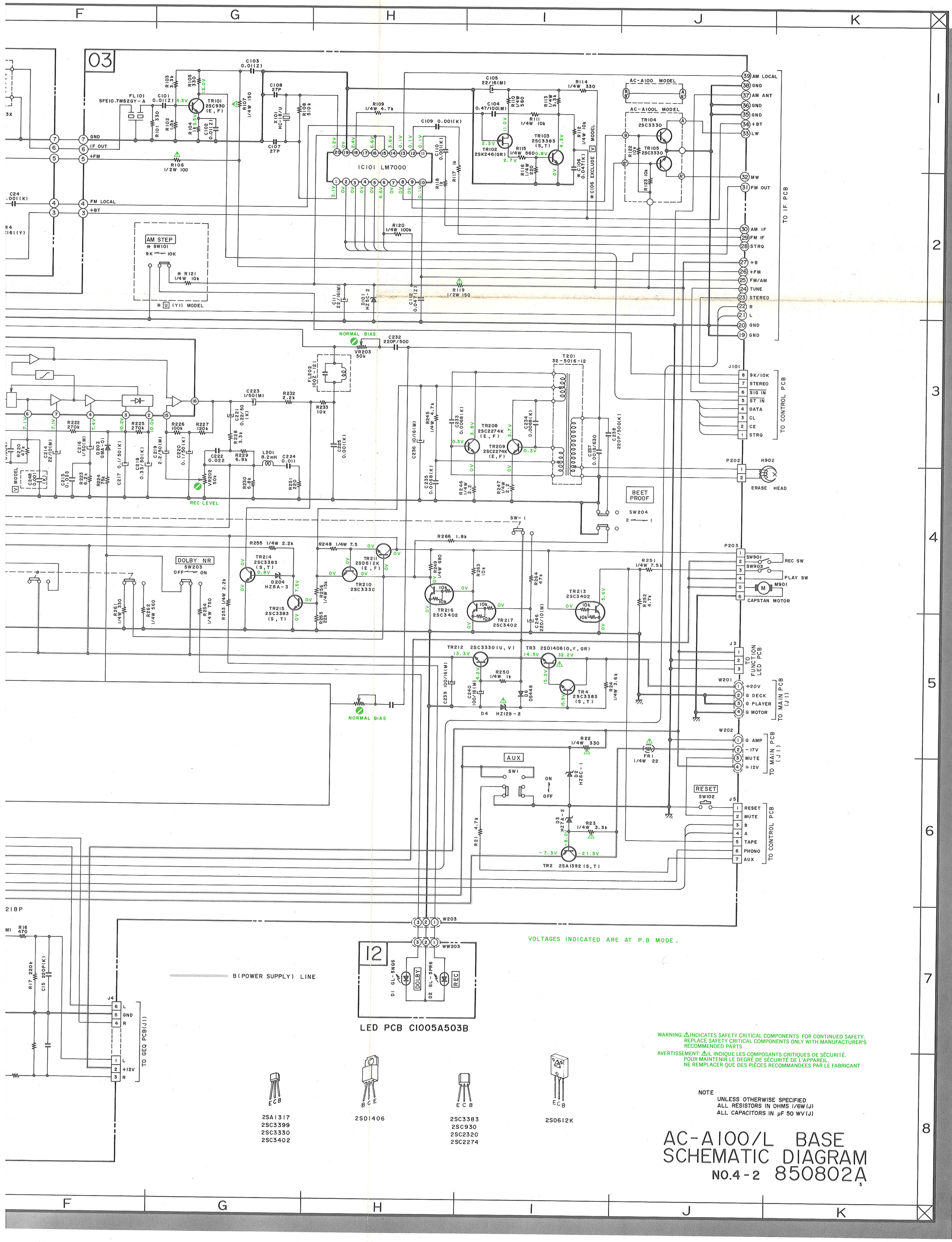
POWER SUPPLY PCB
C1005A509B V

CONTROL PCB
C1005A5010

TR1 .... 2SA1317 (S, T, U)


AC-A100/L
04
03
FRONT END PCB C1005B5040
BASE PCB C1005A503A
IC201 LA2730
SAME AS LEFT CHANNEL
ANTENNA
FM
AM
LOOP ANT
TM101
LEFT
RIGHT
H901 REC/PB
P201
P210
TP P2
TP P1
TAPE SELECTOR
NORMAL — CrO2
SW202
PB — REC
SW201
SW-4
SW-3
SW-2
VR201 50k P.B LEVEL
POWER SUPPLY DC12
J2
J1
D1, 5 DS135D-KB1
TR1 2SA1317 (T, V)
IC1 1/2
IC1 2/2
IC2 TC4052BP
IC3 M5218P
IC3 1/2
IC3 2/2
PHONO
CD/VTR
L ch
R ch
EXCLUDE V MODEL
V MODEL
J4
GND
+12V
TR1 2SK161(Y)
TR2 2SC2999 (C, D)
TR3 2SC930 (E, F)
TR4 2SK161(Y)
D1 1SV147
D2 1SV147
D3 1SV147
D4 1SV147
T1 119AC-15533X
FL101 SFE10.7MS2GY-A
*L7 Y1 E525HNS-110011
*L7 E525HN-110003 EXCEPT Y1
GND
IF OUT
+FM
FM LOCAL
+BT
TR201 2SC2320L (F, G)
TR202 2SC3399
TR203 2SC3383 (S, T)
TR204 2SC3383 (S, T)
TR205 2SC3383 (S, T)
TR206 2SC3383 (S, T)
TR207 2SC3383 (S, T)
D201 GMA-01
D202 GMA-01
D203 GMA-01
FL201 201AK-005
A
B
C
D
E
F
1
2
3
4
5
6
7
8
001760

*	EXCEPT(Y1)	(Y1)
C1	27P LH	33P LH
C2	27P LH	33P LH
C4	33P LH	39P LH
C5	33P LH	39P LH
C7	27P LH	33P LH
C8	27P LH	33P LH
C22	6P(D)UJ	3P(C)UJ


03
FL101 SFE10.7MS2GY-A
TR101 2SC930 (E, F)
IC101 LM7000
TR102 2SK246(GR)
TR103 2SC3383 (S, T)
AC-A100 MODEL
AC-A100L MODEL
TR104 2SC3330
TR105 2SC3330
✱ C106 EXCLUDE V MODEL
AM STEP
✱ SW101
9K — 10K
✱ U (Y1) MODEL
TO IF PCB
39 AM LOCAL
38 GND
37 AM ANT
36 GND
35 GND
34 +BT
33 LW
32 MW
31 FM OUT
30 AM IF
29 FM IF
28 STRQ
27 +B
26 +FM
25 FM/AM
24 TUNE
23 STEREO
22 R
21 L
20 GND
19 GND
NORMAL BIAS
VR203 50k
T201 32-5016-12
TR208 2SC2274K (E, F)
TR209 2SC2274K (E, F)
J101
9 9K/10K
7 STEREO
6 SIG IN
5 ST IN
4 DATA
3 CL
2 CE
1 STRQ
TO CONTROL PCB
P202
H902
ERASE HEAD
BEET PROOF
SW204
REC LEVEL
VR202 50k
L201 8.2mH
DOLBY NR
SW203
OFF — ON
TR214 2SC3383 (S, T)
D204 HZ6A-3
TR215 2SC3383 (S, T)
TR211 2SD612K (E, F)
TR210 2SC3330
TR216 2SC3402
TR217 2SC3402
TR213 2SC3402
P203
SW901
SW902
REC SW
PLAY SW
M901
CAPSTAN MOTOR
J3
TO FUNCTION LED PCB
TR212 2SC3330(U, V)
TR3 2SD1406(O, Y, GR)
TR4 2SC3383 (S, T)
D4 HZ12B-2
D6 DS448
W201
+20V
G DECK
G PLAYER
G MOTOR
TO MAIN PCB (J1)
W202
G AMP
-17V
MUTE
+12V
AUX
SW1
ON
OFF
D2 HZ6C-1
D3 HZ7A-2
TR2 2SA1392 (S, T)
RESET
SW102
J5
1 RESET
2 MUTE
3 B
4 A
5 TAPE
6 PHONO
7 AUX
TO CONTROL PCB
W203
WW203
12
D1 GL-5NG6
DOLBY
D2 GL-5PR6
REC
LED PCB C1005A503B
B (POWER SUPPLY) LINE
J4
6 L
5 GND
4 R
1 L
2 +12V
3 R
TO GEQ PCB (J1)
VOLTAGES INDICATED ARE AT P.B MODE.
E C B
2SA1317
2SC3399
2SC3330
2SC3402
B C E
2SD1406
E C B
2SC3383
2SC930
2SC2320
2SC2274
E C B
2SD612K

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

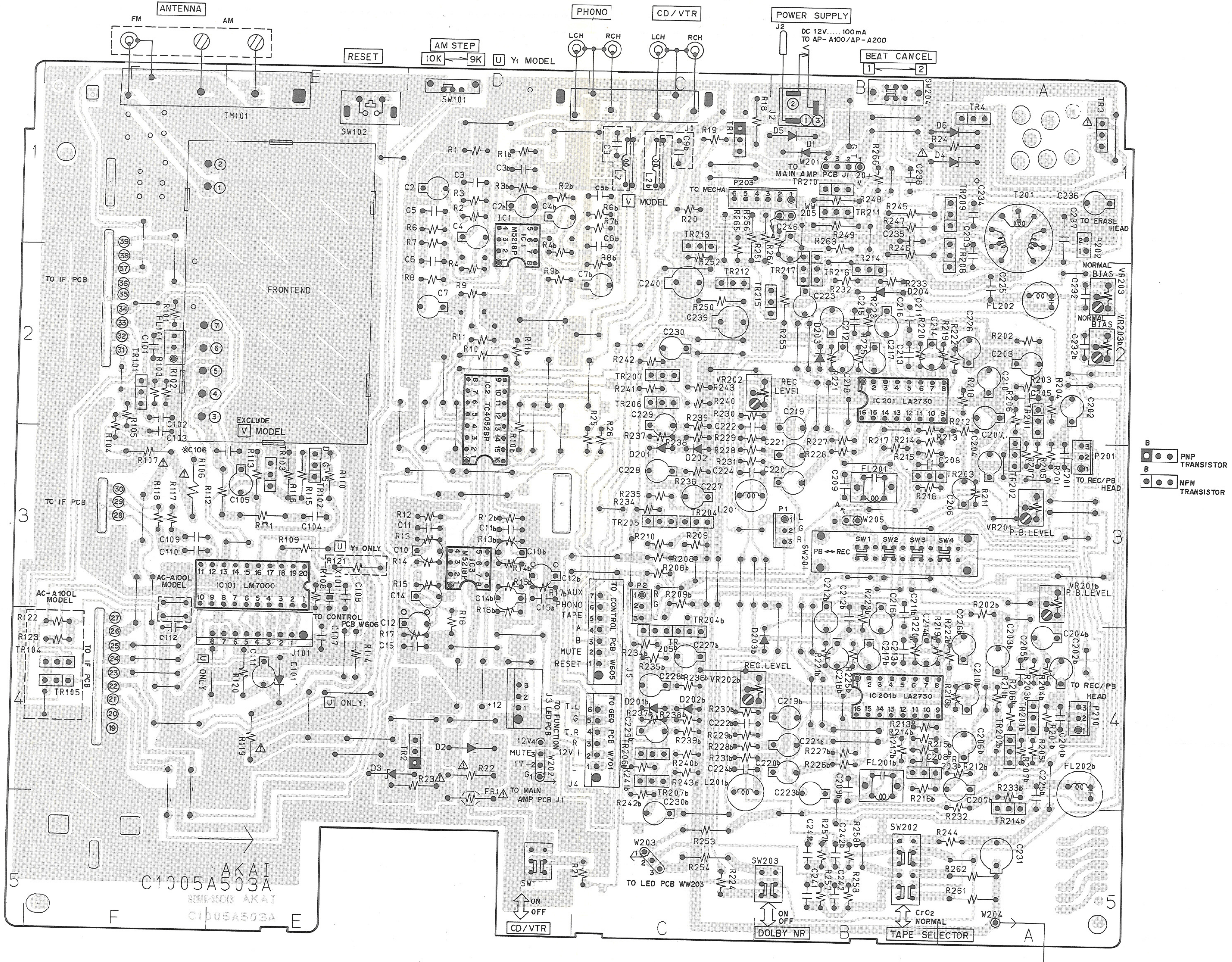
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE

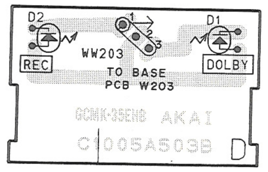
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN µF 50 WV (J)

AC-A100/L BASE SCHEMATIC DIAGRAM

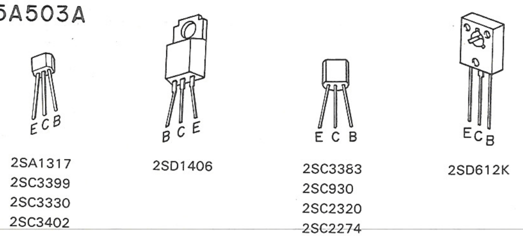
NO.4-2 850802A

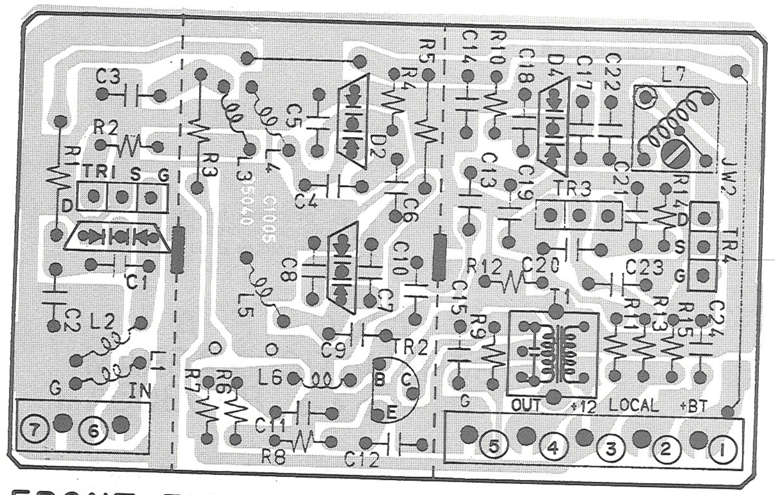

ANTENNA
FM
AM
RESET
AM STEP
10K
9K
U Y1 MODEL
PHONO
LCH
RCH
CD/VTR
POWER SUPPLY
DC 12V..... 100mA
TO AP-A100/AP-A200
BEAT CANCEL
TM101
SW101
SW102
FRONTEND
TO IF PCB
EXCLUDE V MODEL
IC101 LM7000
IC2 TC4052BP
IC201 LA2730
IC201b LA2730
T201
TO ERASE HEAD
NORMAL BIAS
REC LEVEL
P.B.LEVEL
TO REC/PB HEAD
PNP TRANSISTOR
NPN TRANSISTOR
TO MAIN AMP PCB J1
TO CONTROL PCB W606
TO LED PCB WW203
TO GEQ PCB W701
TO FUNCTION PCB
MUTE
ON
OFF
CD/VTR
DOLBY NR
CrO2
NORMAL
TAPE SELECTOR
AKAI
C1005A503A

BASE PCB
C1005A503A


D2
D1
WW203
REC
DOLBY
TO BASE PCB W203
AKAI
C1005A503B

LED PCB
C1005A503B


E C B
B C E
E C B
E C B
2SA1317
2SC3399
2SC3330
2SC3402
2SD1406
2SC3383
2SC930
2SC2320
2SC2274
2SD612K


C3
R2
TR1
C1
L2
IN
G
R3
L3
C5
C4
C6
D2
L5
C8
C9
L6
R6
R7
R8
C12
TR2
R5
R4
C14
C13
C15
R9
R12
C20
C19
C17
C18
C22
TR3
T1
C23
L7
TR4
C24
OUT
+12
LOCAL
+BT
⑦
⑥
⑤
④
③
②
①
C1005

FRONT END PCB C1005B5040

TR1	2SA1317 (T, U)
TR2	2SA1392 (S, T)
TR3	2SD1406 (O, Y, GR)
TR4, 101, 103, 203 ~ 207, 214, 215	2SC3383 (S, T)
TR101	2SC930 (E, F)
TR102	2SK246 (GR)
TR201	2SC2320L (F, G)
TR202	2SC3399
TR208, 209	2SC2274K (E, F)
TR210	2SC3330
TR211	2SD612K (E, F)
TR212	2SC3330 (U, V)
TR213,216,217	2SC3402

LOCATION OF TRANSISTOR'S

TR1	C1
TR2	D4
TR3	A1
TR4	A1
TR101	F2
TR102	E3
TR103	E3
TR201	A2
TR201b	A4
TR202	A3
TR202b	A4
TR203	B3
TR203b	B4
TR204	C3
TR204b	C4
TR205	C3
TR205b	C4
TR206	C2
TR206b	C4
TR207	C2
TR207b	C4
TR208	A1.2/B1.2
TR209	A1/B1
TR210	B1
TR211	B1
TR212	C2
TR213	C1
TR214	B2
TR214b	A4/A5
TR215	B2
TR216	B2
TR217	B2

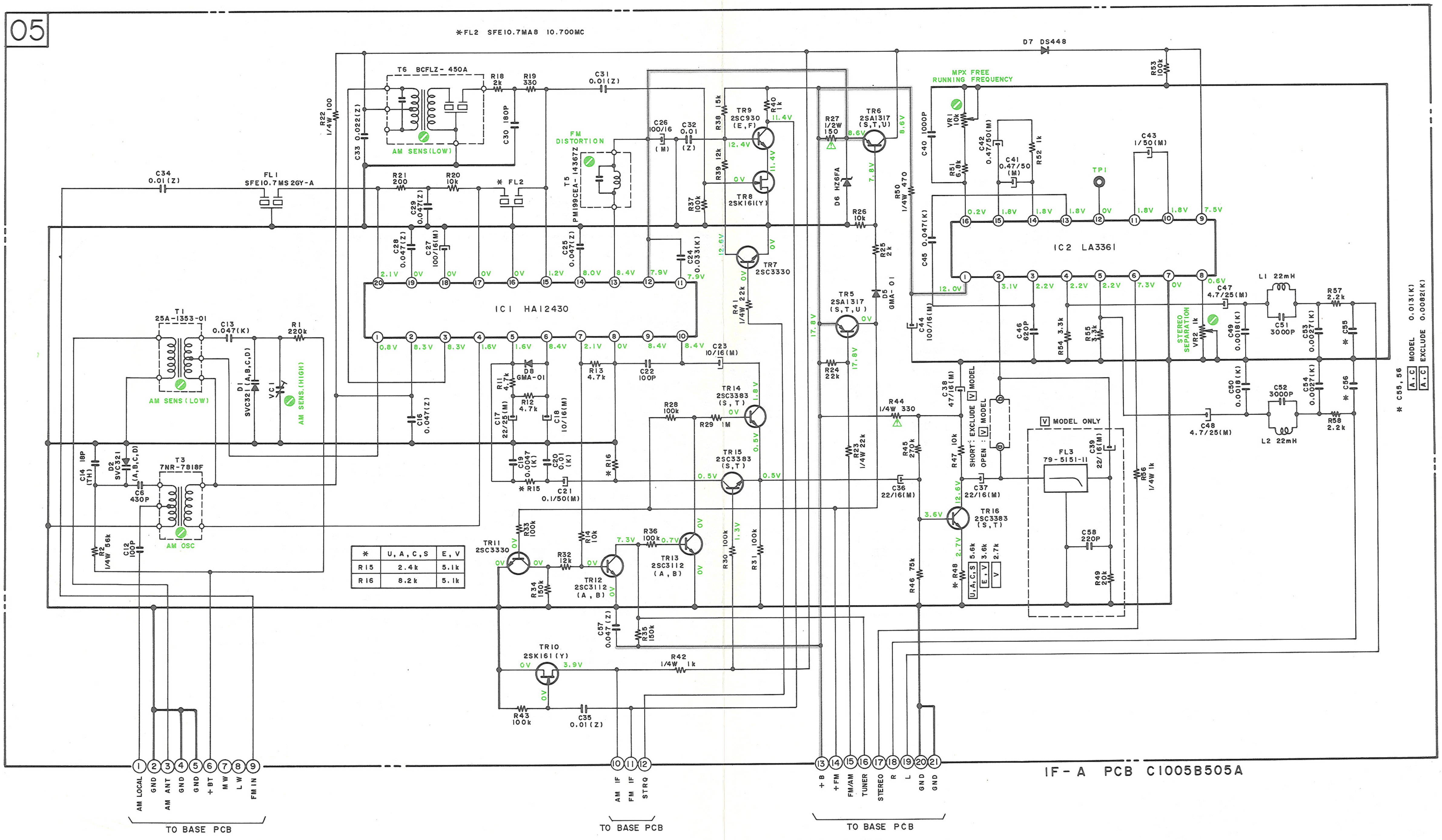
LOCATION OF IC'S

IC1	D1/D2
IC2	D2/D3
IC3	D3
IC101	E3
IC201	B2
IC201b	B4

LOCATION OF CONNECTOR'S

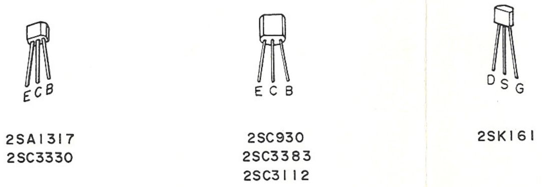
J1	C1
J2	B1
J3	D4
J4	C4
J5	C4/C5
P1	B3
P2	C3
P202	A1
P203	C1
P210	A4
W201	B1
W202	D4
W203	C5
J101	E4

AC-A100


05
*FL2 SFE10.7MA8 10.700MC
T6 BCFLZ-450A
AM SENS (LOW)
FM DISTORTION
T5 PM199CEA-14367Z
FL1 SFE10.7MS2GY-A
IC1 HA12430
IC2 LA3361
MPX FREE RUNNING FREQUENCY
STEREO SEPARATION
TP1
D7 DS448
D6 HZ6FA
D5 GMA-01
D8 GMA-01
TR5 2SA1317 (S,T,U)
TR6 2SA1317 (S,T,U)
TR7 2SC3330
TR8 2SK161 (Y)
TR9 2SC930 (E,F)
TR10 2SK161 (Y)
TR11 2SC3330
TR12 2SC3112 (A,B)
TR13 2SC3112 (A,B)
TR14 2SC3383 (S,T)
TR15 2SC3383 (S,T)
TR16 2SC3383 (S,T)
T1 25A-1353-01
T3 7NR-7818F
AM SENS (LOW)
AM SENS (HIGH)
AM OSC
D1 SVC321 (A,B,C,D)
D2 SVC321 (A,B,C,D)
L1 22mH
L2 22mH
FL3 79-5151-11
V MODEL ONLY
SHORT : EXCLUDE V MODEL
OPEN : V MODEL
* C55, 56 MODEL A,C 0.013 (K) EXCLUDE A,C 0.0082 (K)
* R48 U,A,C,S 5.6k E,V 3.6k V 2.7k
1 AM LOCAL
2 GND
3 AM ANT
4 GND
5 GND
6 +BT
7 MW
8 LW
9 FM IN
TO BASE PCB
10 AM IF
11 FM IF
12 STRQ
TO BASE PCB
13 +B
14 +FM
15 FM/AM
16 TUNER
17 STEREO
18 R
19 L
20 GND
21 GND
TO BASE PCB
IF-A PCB C1005B505A

*	U, A, C, S	E, V
R15	2.4k	5.1k
R16	8.2k	5.1k

B (POWER SUPPLY) LINE


E C B
2SA1317
2SC3330
E C B
2SC930
2SC3383
2SC3112
D S G
2SK161

INDICATED VOLTAGES ARE AT AM MODE

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

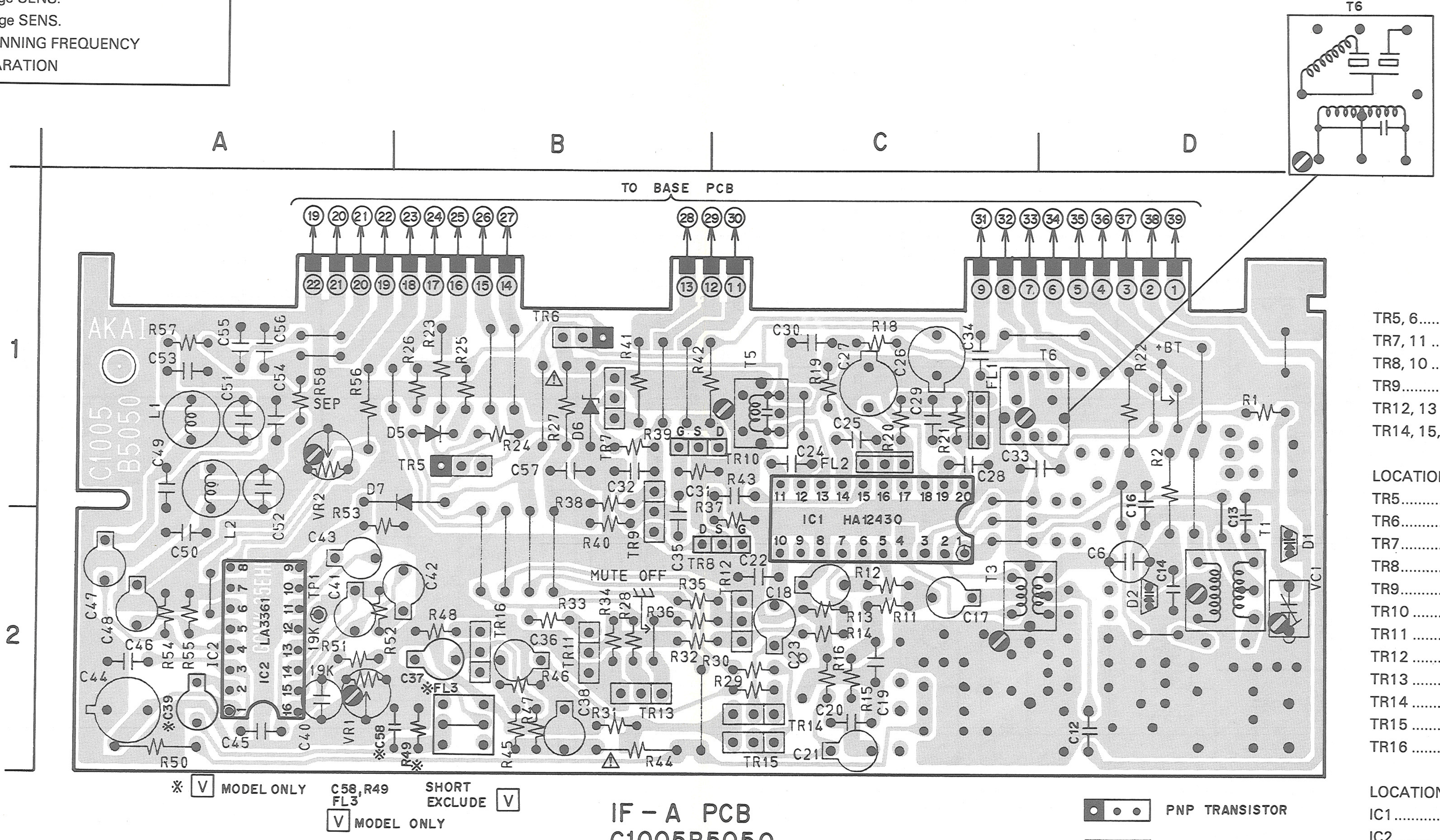
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50 WV (J)

AC-A100 IF-A
SCHEMATIC DIAGRAM

NO.4-3 850803A (A2)

001762

ADJ. PART	Item
T1	AM LOW Range SENS.
T3	AM OSC
T5	FM DISTORTION
T6	AM LOW Range SENS.
VC1	AM HIGH Range SENS.
VR1	MPX FREE RUNNING FREQUENCY
VR2	STEREO SEPARATION


A
B
C
D
1
2
T6
TO BASE PCB
AKAI
C1005 B5050
IC1 HA12430
IC2 LA3361
MUTE OFF
SEP
※ V MODEL ONLY
C58, R49 FL3
SHORT EXCLUDE V
V MODEL ONLY

IF - A PCB
C1005B5050

▪●● PNP TRANSISTOR

●●● NPN TRANSISTOR

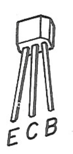
TR5, 6	2SA1317 (S, T, U)
TR7, 11	2SC3330
TR8, 10	2SK161 (Y)
TR9	2SC930 (E, F)
TR12, 13	2SC3112 (A, B)
TR14, 15, 16	2SC3383 (S, T)

LOCATION OF TRANSISTOR'S

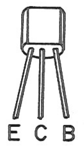
TR5	B1
TR6	B1
TR7	B1
TR8	C2
TR9	B1/B2
TR10	B1
TR11	B2
TR12	C2
TR13	B2
TR14	C2
TR15	C2
TR16	B2

LOCATION OF IC'S

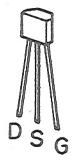
IC1	C1/C2
IC2	A2



2SA1317
2SC3330

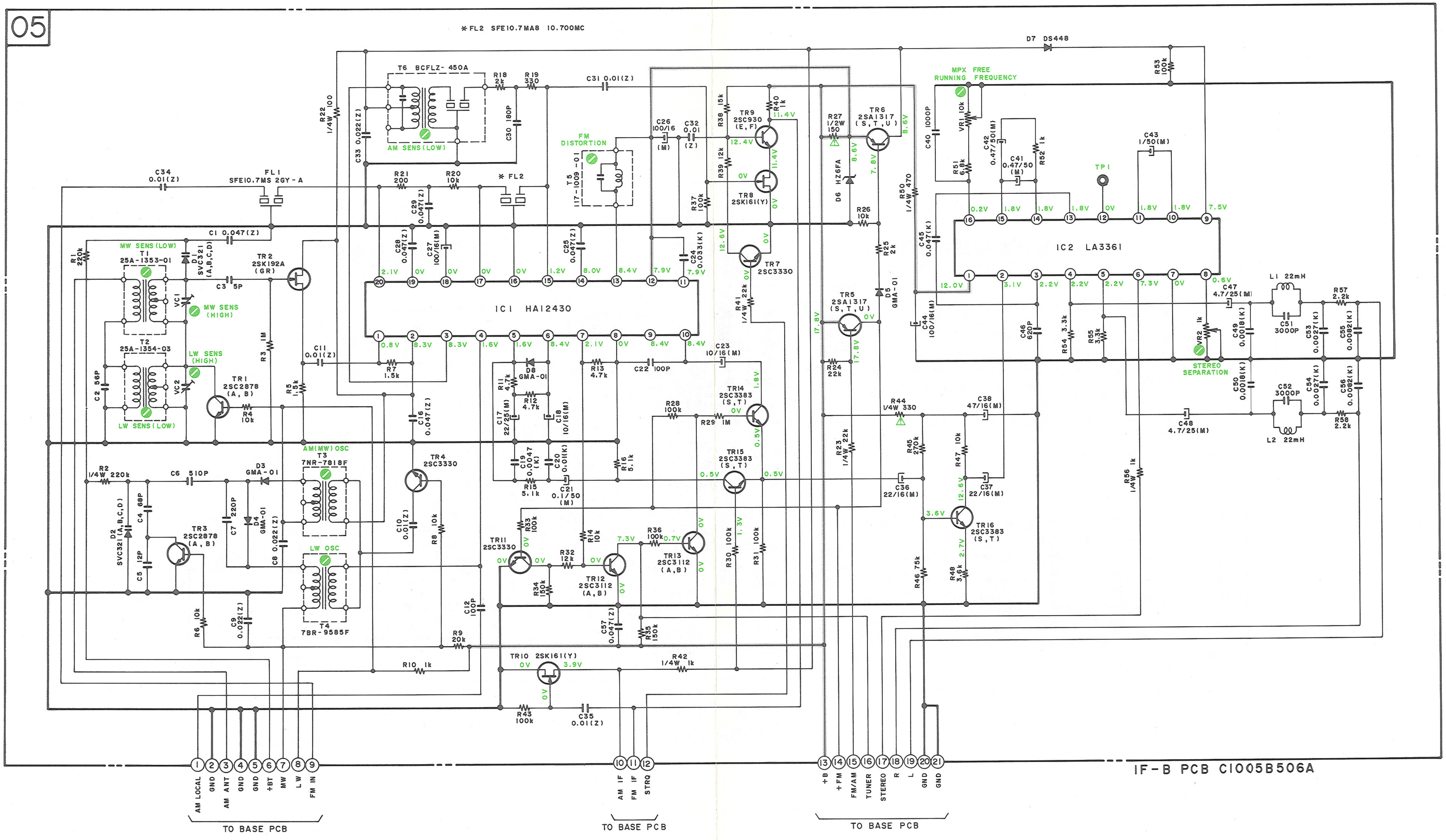


2SC930
2SC3383
2SC3112

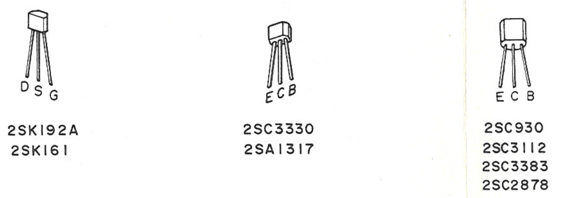


2SK161

AC-A100L


05
*FL2 SFE10.7MA8 10.700MC
IC1 HA12430
IC2 LA3361
T1 25A-1353-01
T2 25A-1354-03
T3 7NR-7918F
T4 7BR-9585F
T5 117-1009-01
T6 BCFLZ-450A
FL1 SFE10.7MS 2GY-A
D7 DS448
TR1 2SC2878 (A, B)
TR2 2SK192A (GR)
TR3 2SC2878 (A, B)
TR4 2SC3330
TR5 2SA1317 (S, T, U)
TR6 2SA1317 (S, T, U)
TR7 2SC3330
TR8 2SK161(Y)
TR9 2SC930 (E, F)
TR10 2SK161(Y)
TR11 2SC3330
TR12 2SC3112 (A, B)
TR13 2SC3112 (A, B)
TR14 2SC3383 (S, T)
TR15 2SC3383 (S, T)
TR16 2SC3383 (S, T)
MW SENS (LOW)
MW SENS (HIGH)
LW SENS (HIGH)
LW SENS (LOW)
AM SENS (LOW)
FM DISTORTION
AM(MW) OSC
LW OSC
MPX FREE RUNNING FREQUENCY
STEREO SEPARATION
TP1
L1 22mH
L2 22mH
1 AM LOCAL
2 GND
3 AM ANT
4 GND
5 GND
6 +BT
7 MW
8 LW
9 FM IN
TO BASE PCB
10 AM IF
11 FM IF
12 STRQ
TO BASE PCB
13 +B
14 +FM
15 FM/AM
16 TUNER
17 STEREO
18 R
19 L
20 GND
21 GND
TO BASE PCB
IF-B PCB C1005B506A

— B(POWER SUPPLY) LINE


D S G
2SK192A
2SK161
E C B
2SC3330
2SA1317
E C B
2SC930
2SC3112
2SC3383
2SC2878

INDICATED VOLTAGES ARE AT AM MODE.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50 WV(J)

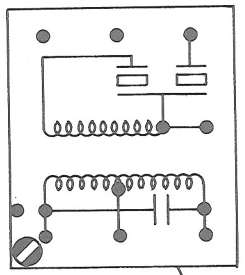
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

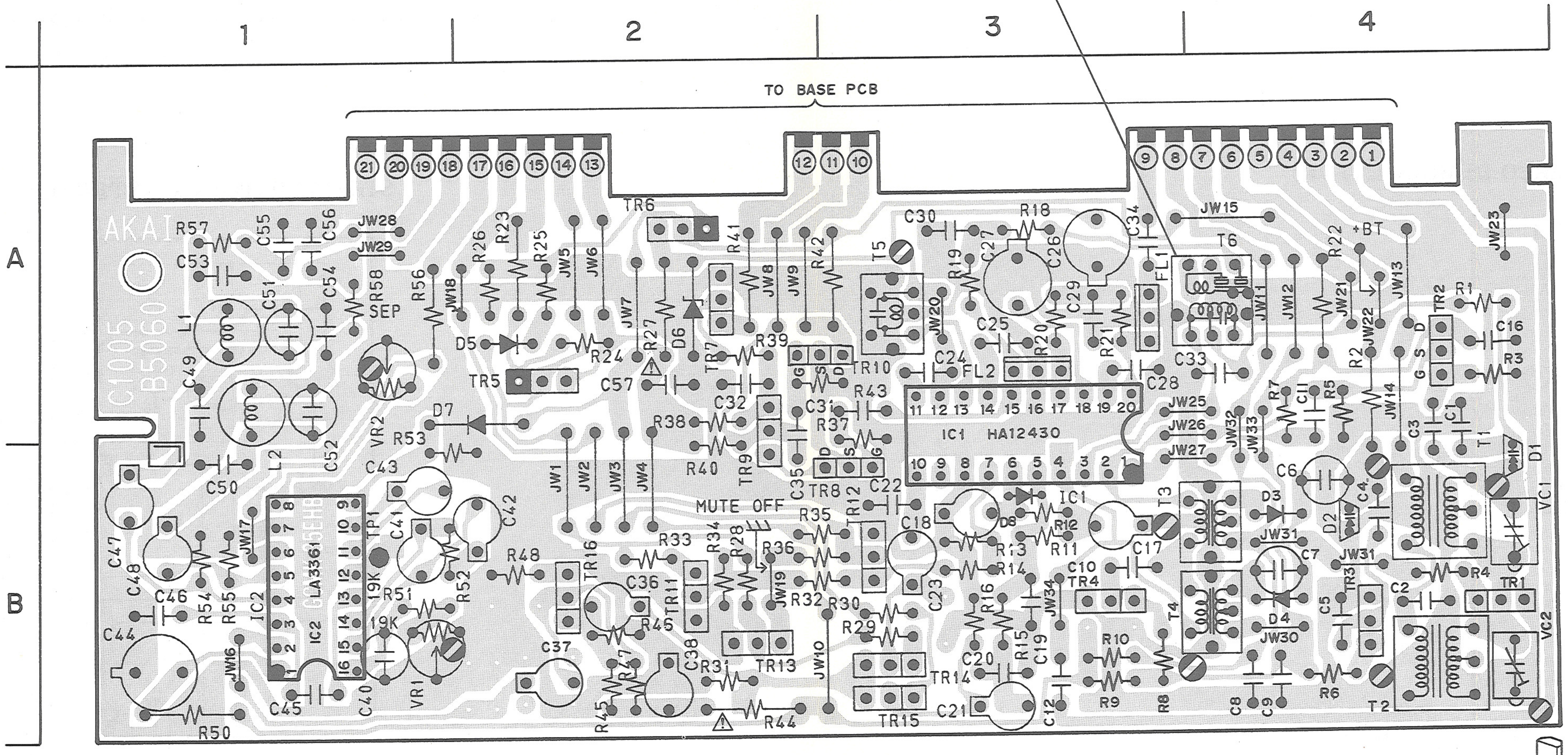
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

AC-A100L IF-B
SCHEMATIC DIAGRAM
NO.4-4 850804A (A2)

001761

ADJ. PART	Item
T1	MW LOW Range SENS.
T2	LW LOW Range SENS.
T3	AM (MW) OSC
T4	LW OSC
T5	FM DISTORTION
T6	AM LOW Range SENS.
VC1	MW HIGH Range SENS.
VC2	LW HIGH Range SENS.
VR1	MPX FREE RUNNING FREQUENCY
VR2	STEREO SEPARATION




1
2
3
4
A
B
TO BASE PCB
21 20 19 18 17 16 15 14 13
12 11 10
9 8 7 6 5 4 3 2 1
AKAI
C1005 B5060
IC1 HA12430
IC2 LA3361
MUTE OFF
SEP
TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR15 TR16
T1 T2 T3 T4 T5 T6
VC1 VC2 VR1 VR2
L1 L2 FL1 FL2
D1 D2 D3 D4 D5 D6 D7 D8
+BT
19K
TP1

IF-B PCB C1005B5060

●●● PNP TRANSISTOR

●●● NPN TRANSISTOR

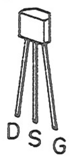
TR1, 3	2SC2878 (A, B)
TR2	2SK192A (GR)
TR4, 7, 11	2SC3330
TR5, 6	2SA1317 (S, T, U)
TR8, 10	2SK161 (Y)
TR9	2SC930 (E, F)
TR12, 13	2SC3112 (A, B)
TR14, 15, 16	2SC3383 (S, T)

LOCATION OF TRANSISTOR'S

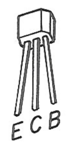
TR1	B4
TR2	A4
TR3	B4
TR4	B3
TR5	A2
TR6	A2
TR7	A2
TR8	B3
TR9	A2/B2
TR10	A2/B2
TR11	B2
TR12	B3
TR13	B2
TR14	B3
TR15	B3
TR16	B2

LOCATION OF IC

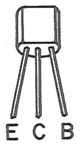
IC1	A3/B3
IC2	B1



2SK192A
2SK161

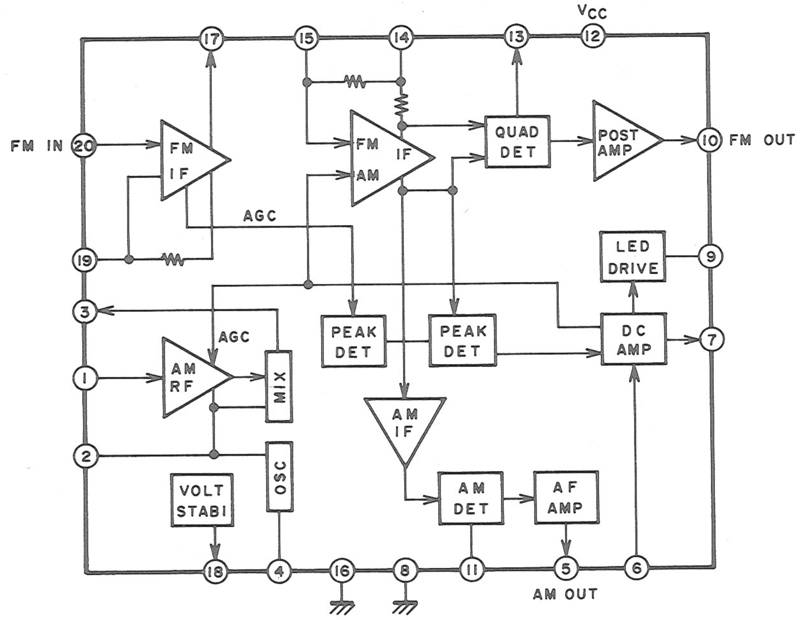


2SC3330
2SA1317

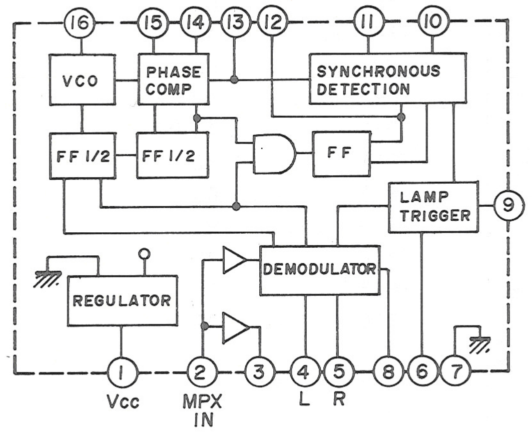


2SC930
2SC3112
2SC3383
2SC2878

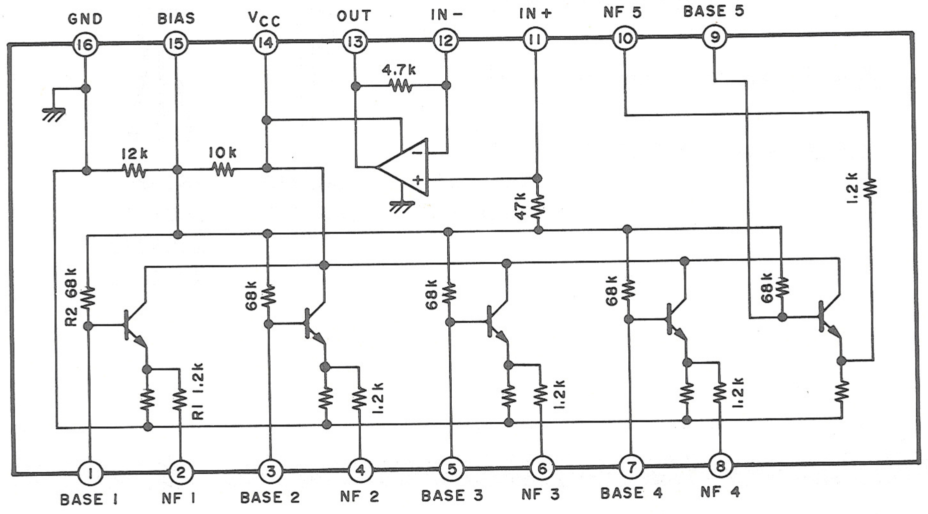
HA12430 (FM/AM STEREO RECEIVER SYSTEM)


Vcc
FM IN
FM IF
AGC
FM IF AM
QUAD DET
POST AMP
FM OUT
LED DRIVE
PEAK DET
PEAK DET
DC AMP
AM RF
MIX
AM IF
OSC
VOLT STABI
AM DET
AF AMP
AM OUT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

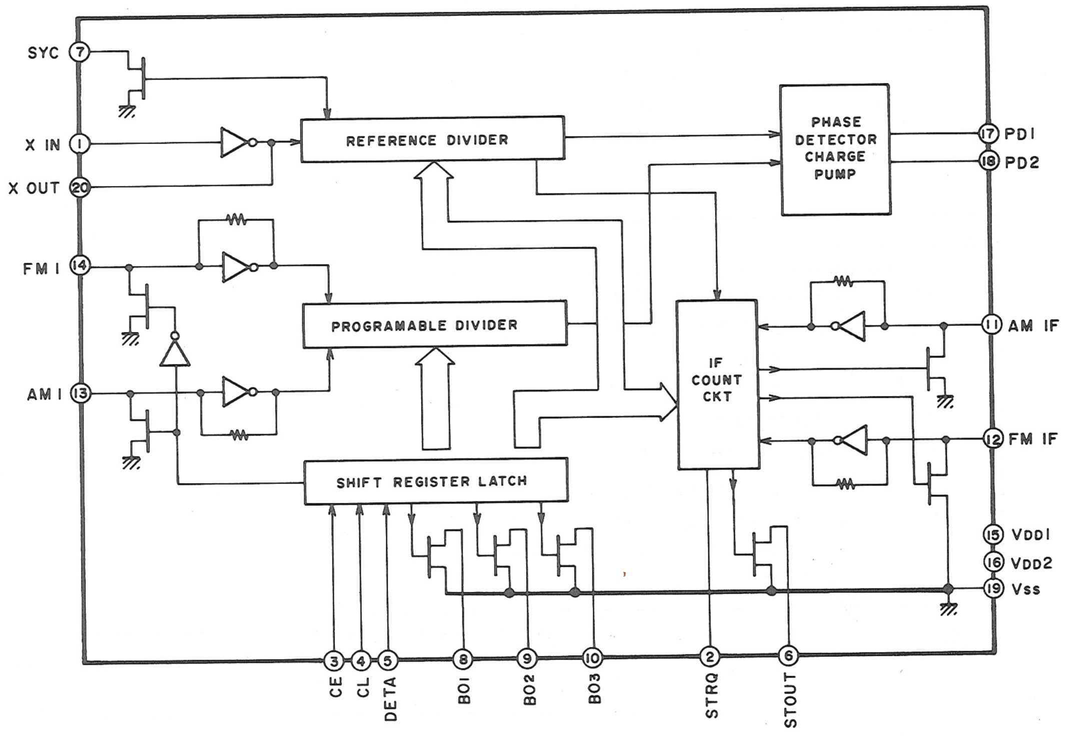
LA3361 (PLL FM MULTIPLEX STEREO DEMODULATOR)


VCO
PHASE COMP
SYNCHRONOUS DETECTION
FF 1/2
FF 1/2
FF
LAMP TRIGGER
DEMODULATOR
REGULATOR
Vcc
MPX IN
L
R
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

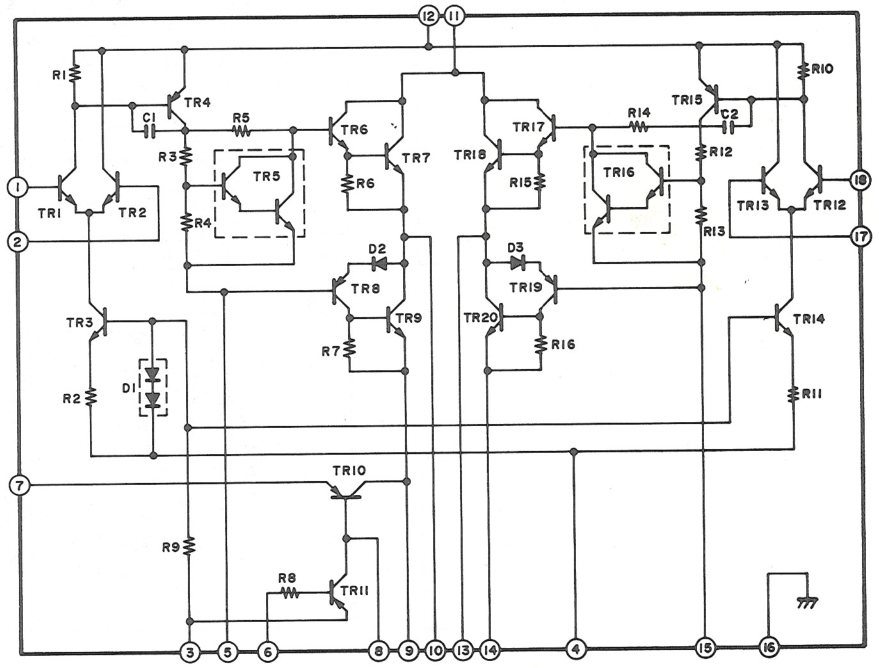
LA3600 (EQUALIZER)


GND
BIAS
Vcc
OUT
IN−
IN+
NF 5
BASE 5
4.7k
12k
10k
47k
1.2k
R2 68k
R1 1.2k
68k
1.2k
BASE 1
NF 1
BASE 2
NF 2
BASE 3
NF 3
BASE 4
NF 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

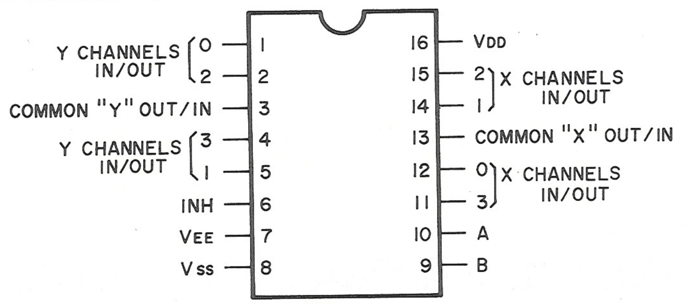
LM7000 (PLL FREQUENCY SYNTHESIZER)


SYC
X IN
X OUT
FM I
AM I
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
PD1
PD2
PROGRAMABLE DIVIDER
IF COUNT CKT
AM IF
FM IF
SHIFT REGISTER LATCH
VDD1
VDD2
Vss
CE
CL
DETA
BO1
BO2
BO3
STRQ
STOUT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

STK4152-II (POWER AMPLIFIER)


R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16
TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR15 TR16 TR17 TR18 TR19 TR20
C1 C2
D1 D2 D3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

TC4052BP (DIFFERENTIAL 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER)


Y CHANNELS IN/OUT 0 — 1
Y CHANNELS IN/OUT 2 — 2
COMMON "Y" OUT/IN — 3
Y CHANNELS IN/OUT 3 — 4
Y CHANNELS IN/OUT 1 — 5
INH — 6
VEE — 7
Vss — 8
16 — VDD
15 — 2 X CHANNELS IN/OUT
14 — 1 X CHANNELS IN/OUT
13 — COMMON "X" OUT/IN
12 — 0 X CHANNELS IN/OUT
11 — 3 X CHANNELS IN/OUT
10 — A
9 — B

INHIBIT ⑥	A ⑩	B ⑨	"ON" CHANNEL
L	L	L	0X, 0Y
L	H	L	1X, 1Y
L	L	H	2X, 2Y
L	H	H	3X, 3Y
H	X	X	NONE

X=DON'T CARE